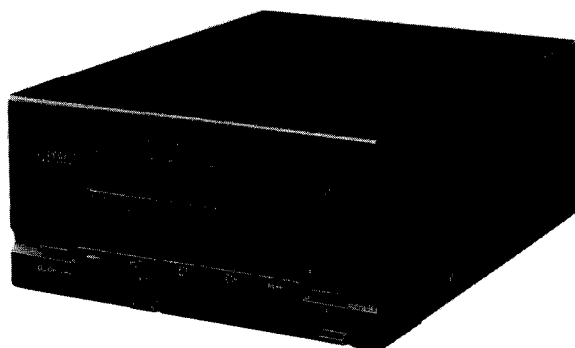


Service Manual

Dolby NR-Equipped
Stereo Double Cassette Deck

Cassette Deck
RS-CH7



Color

(K) Black Type

Areas

Country Code	Area	Color
(E)	Continental Europe.	(K)
(GC)	Third Region	

System: SC-CH7

Because of unique interconnecting cables,
when a component requires service, send or
bring in the entire system.

RS-TR165 MECHANISM SERIES (AR300)

SPECIFICATIONS

(DIN 45 500)

Track system	Compact cassette stereo
Tape speed	4.8 cm/sec. (1 7/8 ips)
Bias frequency	80 kHz
Heads	
(DECK 2) REC/PLAY	Permalloy head
Erasing	Double-gap ferrite head
(DECK 1) PLAY	Permalloy head
Motors	
(DECK 2)	DC servo motor
(DECK 1)	DC servo motor
Wow and flutter	0.1% (WRMS)
Fast Forward and Rewind Time	
	Approx. 110 seconds with C-60 cassette tape
Frequency response	
METAL	30 Hz~17 kHz
CrO ₂	30 Hz~16 kHz
NORMAL	30 Hz~16 kHz

S/N

(Signal level max recording level,
CrO₂ type tape)

DOLBY B NR on	66 dB (CCIR)
DOLBY C NR on	74 dB (CCIR)
DOLBY off	56 dB (A WTD)

GENERAL

Power consumption	16 W
Dimensions (W×H×D)	215×110×297 mm (8 15/32"×4 11/32"×11 1/16")
Weight	2.6 kg (5.7 lb.)

Notes:

- Specifications are subject to change without notice.
- Weight and dimensions show are approximate.

*Dolby noise reduction manufactured under license from
Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol are trade marks of Dolby
Laboratories Licensing Corporation.

System	Tuner	Amplifier	CD Player	Cassette Deck	Speakers
SC-CH7	ST-CH7L	SU-CH7	SL-CH7	RS-CH7	SB-CH7

Technics/Panasonic

(E)

(GC)

CONTENTS

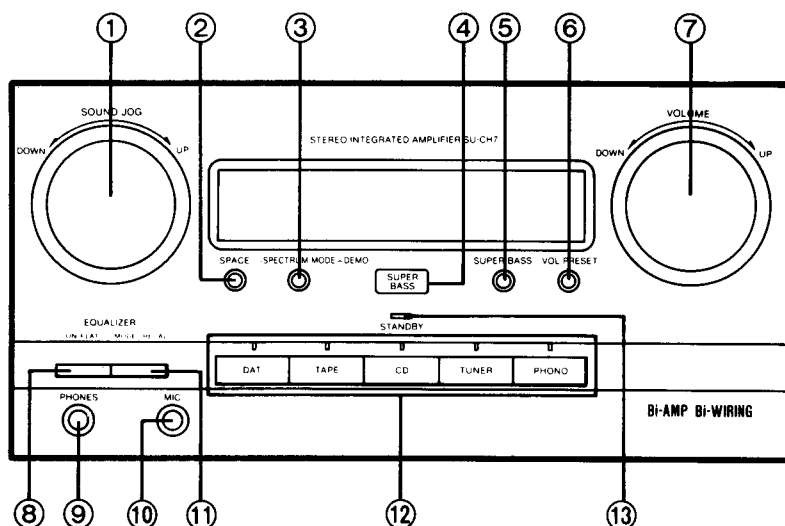
LOCATION OF CONTROLS	Page 2, 3
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MECHANISM PARTS LOCATION (DECK 1)	29, 30
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CABINET PARTS LOCATION	35, 36

Note:

Refer to the service manual for Model No. SU-CH7, Order No. AD9104082C1 for information on ACCESSORIES, INSTALLATION OF THE SYSTEM, CONNECTIONS and PACKAGING.

LOCATION OF CONTROLS



Amplifier: control section

① Sound effect level control (SOUND JOG)

This control is used for adjusting the level of the ambience enhancement effect and the equalization level.

② Ambience enhancement button (SPACE)

This button is used to activate ambience enhancement mode.

③ Spectrum mode-select/demonstration button (-SPECTRUM MODE—DEMO)

This button is used to select one of the six spectrum curves. If you press and hold this button, six types of sound effects (spectrum curve in combination with ambience enhancement) will be sequentially changed (Demonstration mode).

④ Super bass indicator

Illuminates when the super bass mode is activated.

⑤ Super bass button (SUPER BASS)

When this button is pressed, the dynamic low frequency ranges are boosted.

⑥ Volume preset button (VOL. PRESET)

This button is used to make a volume presetting.

⑦ Volume level control (VOLUME)

This control is used to adjust the volume level (−82 dB~0 dB). Note that −82 dB is the lowest volume setting and 0 dB is the highest level setting.

⑧ Equalization function button (ON/FLAT)

This button is used to switch the equalization correction function. If no equalization correction is desired, press this button again to cancel the function.

⑨ Headphones jack (PHONES)

⑩ Microphone jack (MIC)

⑪ Equalization mode-select/recall button (-MODE—RECALL)

This button is used to retrieve a pre-programmed equalization curve from the memory. If you press and hold this button, a curve you programmed can be retrieved.

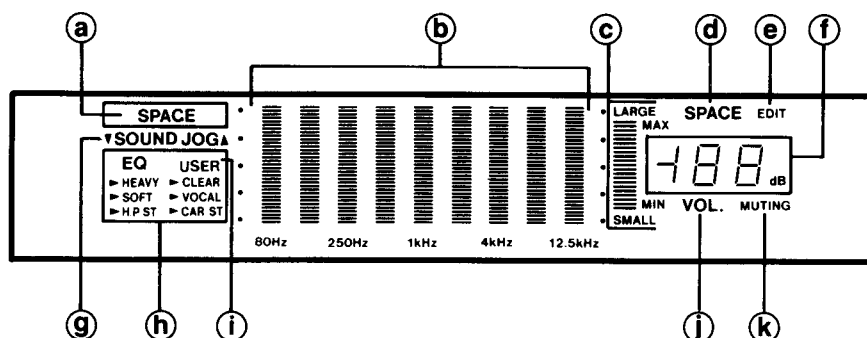
⑫ Input selectors and indicators

These selectors are used to select the sound source to be heard. When the sound source is selected, the indicator above the selector will illuminate.

⑬ Standby indicator (STANDBY)

This indicator illuminates when the power "STANDBY: ON/OFF" switch of the unit or that of the remote control is switched "OFF". Its purpose is to alert the user of the constant supply voltage to the internal circuitry even with the power switch OFF.

For this unit, even if this switch is switched to the "STANDBY" position, there is still a slight power consumption of about 17 watts: this is in order to retain of the "most recent" memory and the preset-memory functions.



Amplifier: display section

(a) Ambience enhancement mode indicator (SPACE)

Illuminates when the ambience enhancement mode is activated.

(b) Spectrum analysis display

This display shows the spectrum analysis level.

(c) Level meter

Display the volume level as it is being adjusted by the volume control. When adjusting the level of the ambience enhancement effect with the sound effect level control, the display shows the level of the ambience enhancement effect.

(d) Ambience enhancement adjustment indicator (SPACE)

Illuminates when adjusting the level of the ambience enhancement effect.

(e) CD edit indicator (EDIT)

Illuminates when making an edit-recording of a compact disc.

(f) Volume level display

Displays the volume level.

(g) Sound effect indicator (▼ SOUND JOG ▲)

When "▼" illuminates, it shows the equalization curves can be adjusted, and when "▲" illuminates, it shows that the ambience enhancement effect can be adjusted.

(h) Equalization mode indicators (HEAVY-CAR ST)

These indicators show which of the six equalization curves is currently used.

(i) "USER" indicator (USER)

This indicator illuminates to show that the desired equalization curves can be programmed into memory or retrieved from the memory.

(j) Volume indicator (VOL.)

Illuminates when adjusting the volume level.

(k) Muting indicator (MUTING)

Illuminates when the muting mode is activated.

DISASSEMBLY INSTRUCTIONS

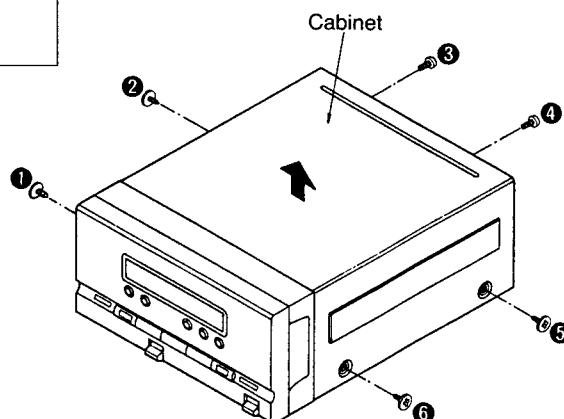
"ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No.
1

Removal of the Cabinet

Procedure
1

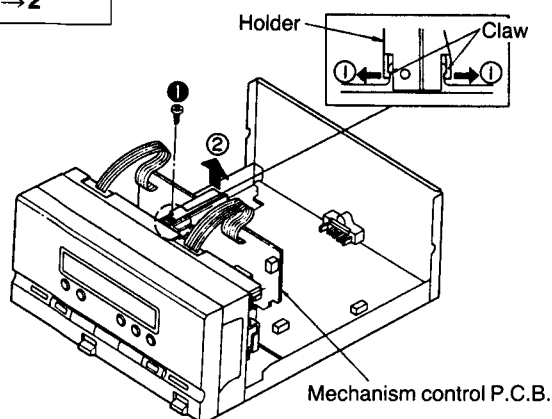


• Remove 6 screws (①~⑥).

Ref. No.
2

Removal of the Mechanism Control P.C.B.

Procedure
1→2



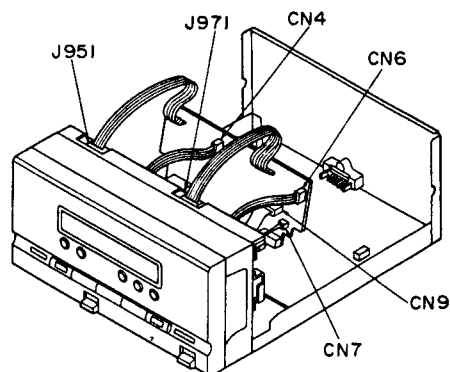
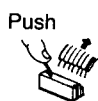
1. Remove the screw (①).
2. Remove 2 claw in the direction of arrow ① and then remove the holder.
3. Remove the mechanism control P.C.B. in the direction of arrow ②.

Removal of the Flat Cable

(J951, J971)

(CN4, CN6)

(CN9)

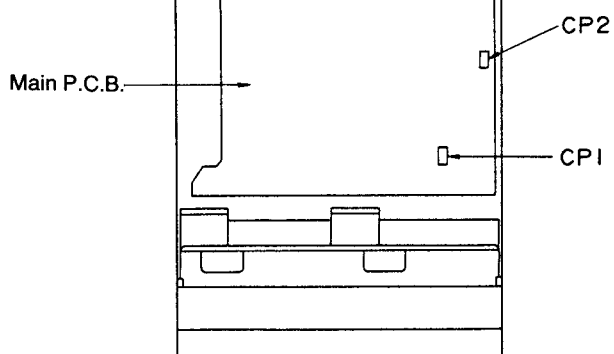


4. Remove 5 flat cable (CN4, CN6, CN9, J951, J971).
5. Remove the connector (CN7).

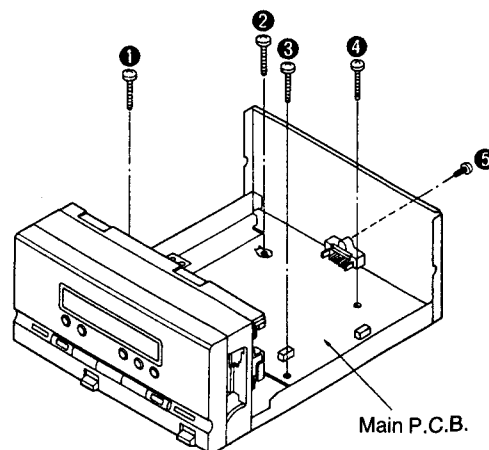
Ref. No.
3

Removal of the Main P.C.B.

Procedure
1→2→3

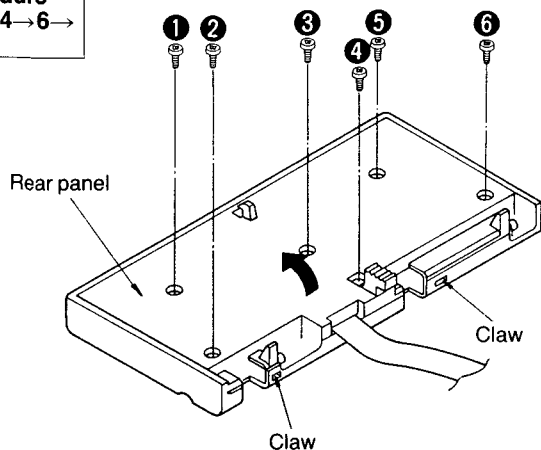
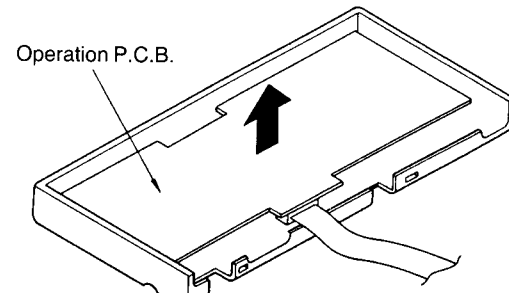


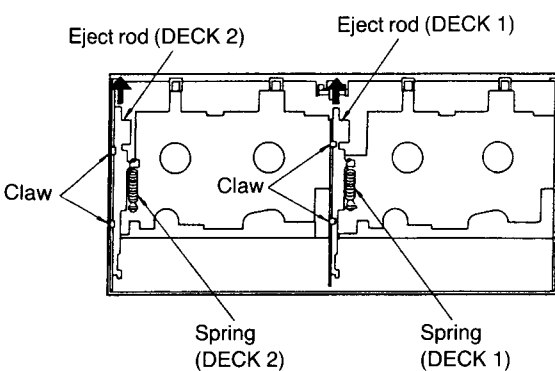
1. Remove 2 connector (CP1, CP2).

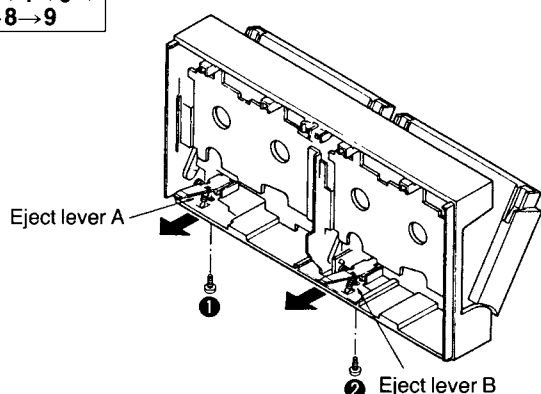


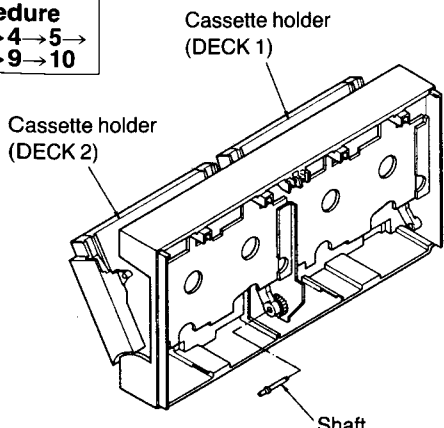
2. Remove 5 screws (①~⑤).

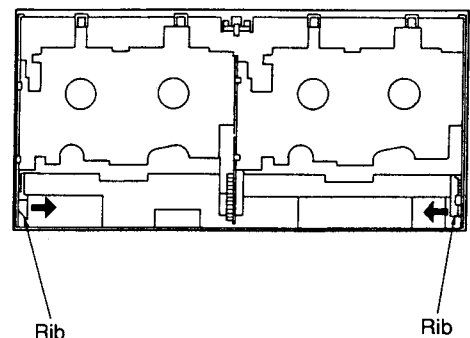
Ref. No. 4	Removal of the Mechanism Unit/Front Panel Ass'y	<div data-bbox="817 141 1516 627"> <p>Main P.C.B.</p> <p>CP 2</p> <p>CP 1</p> <p>Mechanism unit and Front panel ass'y</p> <p>1 2 3 4</p> </div> <div data-bbox="817 627 1516 741"> <p>2. Remove 2 connectors (CP1, CP2).</p> <p>3. Remove the mechanism unit and front panel in the direction of the arrow.</p> </div>	
Procedure 1→2→4	<div data-bbox="300 226 817 627"> <p>(Bottom side)</p> <p>1 2 3 4</p> </div> <div data-bbox="300 627 817 741"> <p>1. Remove 4 screws (1~4).</p> </div>	Ref. No. 6	Removal of the Front Panel
Procedure 1→2→4→5	<div data-bbox="300 815 817 1344"> <p>Front panel</p> <p>Claw</p> <p>Claw</p> <p>Claw</p> <p>Mechanism unit</p> <p>Claw</p> </div> <div data-bbox="300 1344 817 1397"> <p>● Remove 5 claws.</p> </div>	Procedure 1→2→4→6	<div data-bbox="1007 815 1516 1344"> <p>Front panel</p> <p>Eject button</p> </div> <div data-bbox="1007 1344 1516 1397"> <p>1. Pull out the eject buttons. (DECK 1, DECK 2).</p> </div>
<div data-bbox="102 1397 817 2016"> <p>Claw</p> <p>Claw</p> <p>Front panel</p> <p>2</p> <p>3</p> </div> <div data-bbox="102 2016 817 2101"> <p>3. Push the claw in the direction of arrow ②, and then remove the front panel in the direction of arrow ③.</p> </div>		<div data-bbox="817 1397 1516 2016"> <p>Front panel</p> <p>Lock lever</p> <p>1</p> </div> <div data-bbox="817 2016 1516 2101"> <p>2. Push the lever in the direction of the arrow ①, and then open the front panel.</p> </div>	

Ref. No. 7	Removal of the Operation P.C.B.		
Procedure 1→2→4→6→ 7			
<ol style="list-style-type: none">1. Remove 6 screws (①~⑥).2. Remove 2 claws.3. Remove the rear panel in the direction of arrow.			
			
<ol style="list-style-type: none">4. Remove the operation P.C.B. in the direction of arrow.			

Ref. No. 8	Removal of the Eject rod (DECK 1 and DECK 2)		
Procedure 1→2→4→5→ 6→8			
<ol style="list-style-type: none">1. Push the eject rod in the direction of arrow and then open the cassette holder.2. Remove the spring (DECK 1, DECK 2).3. Press 4 claws and then remove the eject rod.			

Ref. No. 9	Removal of the Eject Lever (A) and Eject Lever (B)		
Procedure 1→2→4→5→ 6→8→9			
<p>●Removal of the Eject Angle (A)</p> <ol style="list-style-type: none">1. Remove the screw (①).2. Pull out the eject angle (A). <p>●Removal of the Eject Angle (B)</p> <ol style="list-style-type: none">1. Remove the screw (②).2. Pull out the eject angle (B).			

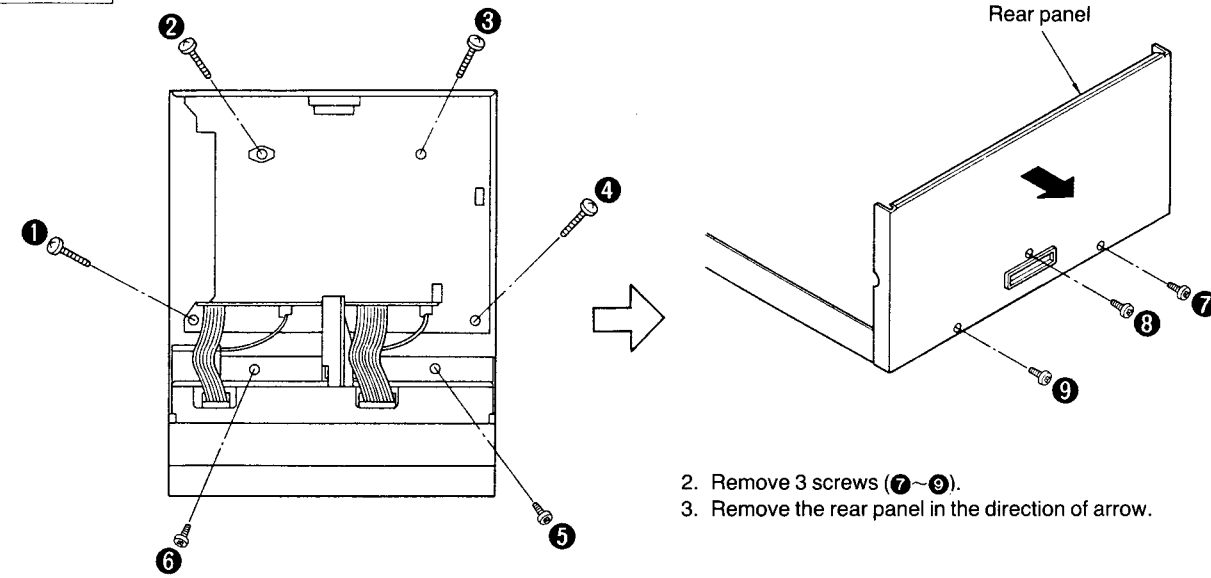
Ref. No. 10	Removal of the Cassette Holder (DECK 1 and DECK 2)		
Procedure 1→2→4→5→ 6→8→9→10			
<ol style="list-style-type: none">1. Pull out the shaft.			

			
<ol style="list-style-type: none">2. Push the rib in the direction of arrow and then remove the cassette holder.			

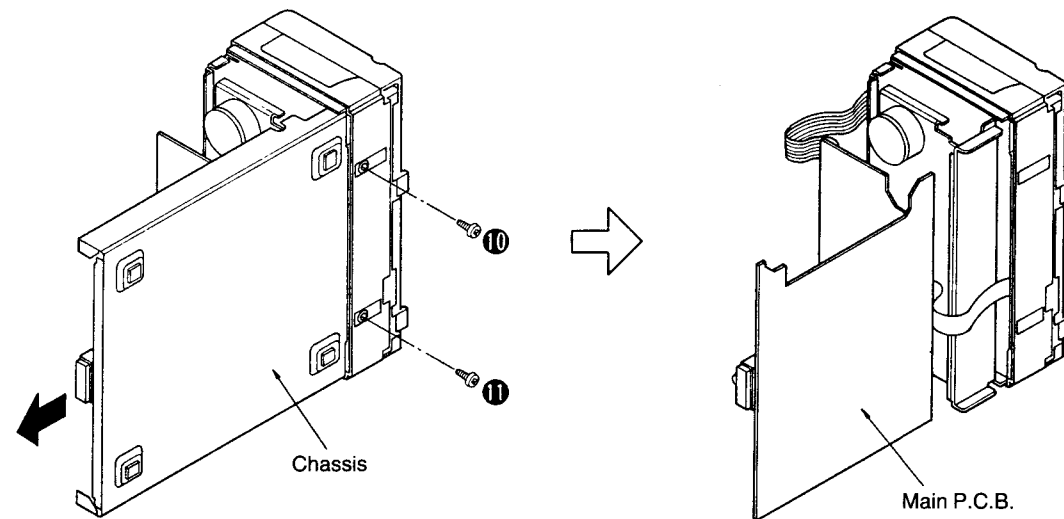
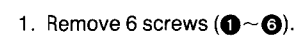
Ref. No.
11

Check of the Main P.C.B.

Procedure 1→11



2. Remove 3 screws (7~9).
3. Remove the rear panel in the direction of arrow.

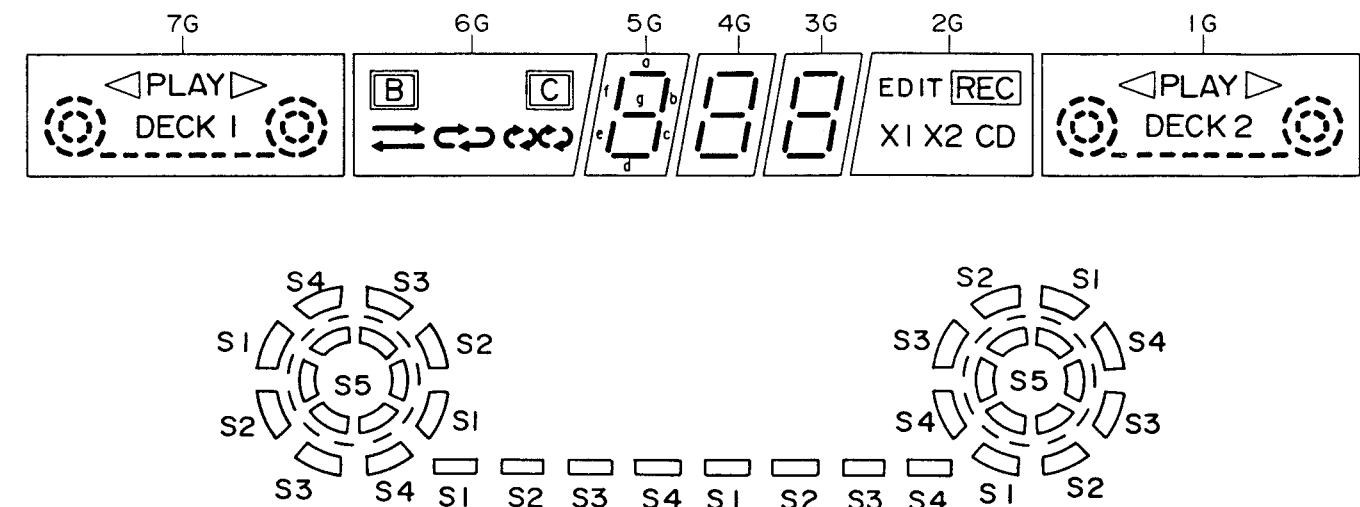


4. Remove 2 screws (10~11).
5. Remove the chassis in the direction of arrow.

6. Check the main P.C.B. in the direction of arrow.

■ DESCRIPTION OF FL PANEL (RSL0088-F)











- **Grid assignment**



- **Pin connection**

Pin No.	3 5	3 4	3 3	3 2	3 1	3 0	2 9	2 8	2 7	2 6	2 5	2 4	2 3	2 2	2 1	2 0	1 9	1 8	1 7	1 6	1 5	1 4	1 3	1 2	1 1	1 0	9	8	7	6	5	4	3	2	1
Connection	F +	F +	N P	P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	N P	N P	N P	N P	N P	N P	N P	N P	N P	N P	N C	N C	7 G	6 G	5 G	4 G	3 G	2 G	1 G	N P	F —	F —	

- **Anode connection**

	7G	6G	5G	4G	3G	2G	1G
P1			a	a	a	EDIT	
P2	PLAY	—	b	b	b		PLAY
P3	S1		c	c	c	×1	S1
P4	S3	—	d	d	d	CD	S3
P5	S2		e	e	e	×2	S2
P6			f	f	f	—	
P7	DECK1		g	g	g	—	DECK2
P8	S4	—	—	—	—	—	S4
P9	S5	—	—	—	—	—	S5

MEASUREMENTS AND ADJUSTMENTS

This tape deck (RS-CH7) is powered by the amplifier (SU-CH7).

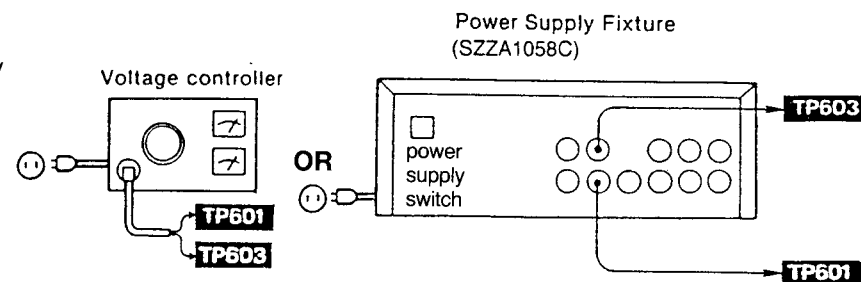
To adjust or check operations on the tape deck as a separate unit, follow the steps below.

1. Apply a power supply voltage of AC 20 V to **TP601** and **TP603**.
2. Short-circuit **TP504** and **TP602** (GND) (power supply switch: ON).

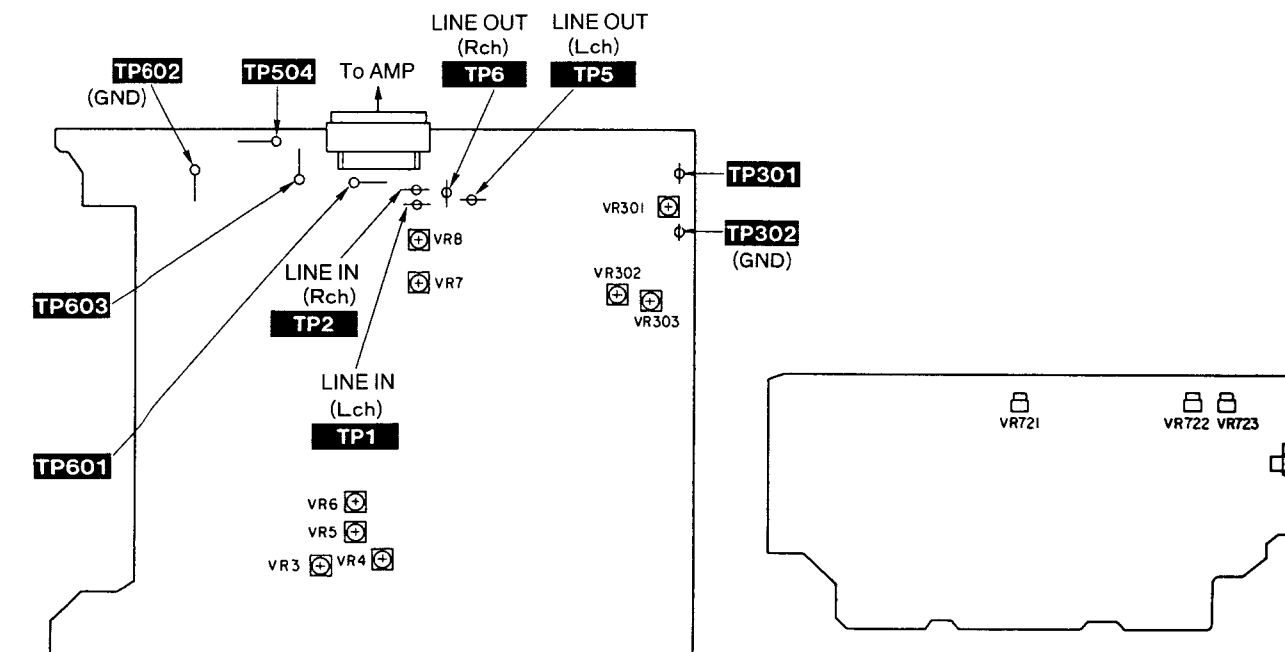
• HOW TO CONNECT

Note:

Apply a power supply voltage of AC 20 V to **TP601** and **TP603** by using a Voltage Controller. If it is not available, use a Power Supply Fixture (SZZA1058C) instead.



• Adjustment points



• Measurement Condition

- Rec. level control; Maximum
- Reverse-mode selector switch; \rightleftharpoons
- Edit-recording tape-speed selector; NORMAL
- Timer-recording switch; off

• Measuring instrument

- EVM (Electronic Voltmeter)
- Oscilloscope
- Digital frequency counter
- AF oscillator

• Test tape

- Head azimuth adjustment (8 kHz, -20 dB); QZZCFM
- Tape speed adjustment (3 kHz, -10 dB); QZZCWAT
- Playback frequency response (315 Hz, 12.5 kHz, 10 kHz, 8 kHz, 4 kHz, 1 kHz, 250 Hz, 125 Hz, 63 Hz, -20 dB); QZZCFM

- Dolby NR switch; Off
- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature $20 \pm 5^\circ\text{C}$ ($68 \pm 9^\circ\text{F}$)

- ATT (Attenuator)
- DC voltmeter
- Resistor (600 Ω)

- Playback gain adjustment (315 Hz, 0 dB); QZZCFM
- Overall frequency response, Overall gain adjustment Normal reference blank tape; QZZCRA
- CrO₂ reference blank tape; QZZCRX
- Metal reference blank tape; QZZCRZ

HEAD AZIMUTH ADJUSTMENT (DECK 1/2)

1. Playback the azimuth adjustment portion (8 kHz, -20 dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the outputs of the L-CH and R-CH are maximized and the lissajous waveform, as illustrated, approaches 0 degrees.

Note: If L-CH and R-CH are not maximized at the same point, adjust to the point where the levels of each channel are maximized and equal.

2. Perform the same adjustment in the play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.

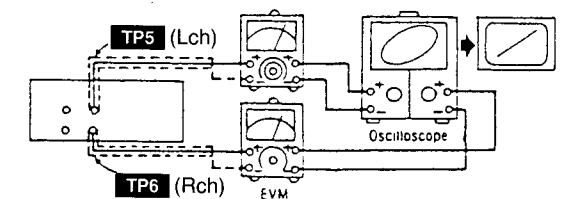


Fig. 1

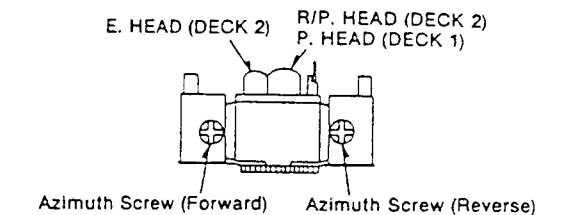


Fig. 2

TAPE SPEED ADJUSTMENT (DECK 1/2)

Normal speed

1. Shift the edit-recording tape-speed selector to "NORMAL".
2. Playback the middle portion of the test tape (QZZCWAT).
3. Adjust Deck 1=VR721 and Deck 2=VR723 so that the output is within the standard value.

Standard value: 3000 ± 15 Hz (NORMAL speed)

High speed [Set the unit to forward (FWD) mode.]

4. Push the edit speed button (SPEED). This will set the high speed mode.
5. Playback the middle portion on the test tape (QZZCWAT).
6. At that time, check if the output from DECK 1 is within the standard value.

Standard value: 6000 ± 600 Hz (HIGH speed)

7. Adjust VR722 so that the output frequency of DECK 2 is within ± 30 Hz of the value of the output frequency of DECK 1.

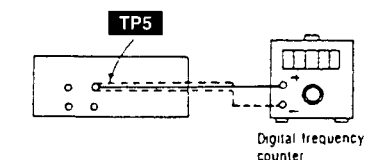


Fig. 3

PLAYBACK GAIN ADJUSTMENT (DECK 1/2)

1. Playback the gain adjusted portion (315 Hz, 0 dB) of the test tape (QZZCFM).
2. Adjust Deck 2=VR5 (L-CH) [[VR6 (R-CH)]] and Deck 1=VR3 (L-CH) [[VR4 (R-CH)]] so that the output is within the standard value.

Standard value: $400 \text{ mV} \pm 0.5 \text{ dB}$

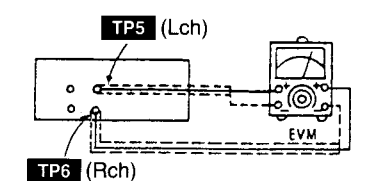


Fig. 4

PLAYBACK FREQUENCY RESPONSE (DECK 1/2)

1. Playback the frequency response portion (315 Hz, 12.5 kHz ~ 63 Hz, -20 dB) of the test tape (QZZCFM).
2. Assure that the frequency response is within the range shown in Fig. 6 for both L-CH and R-CH.

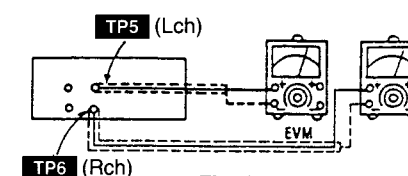


Fig. 5

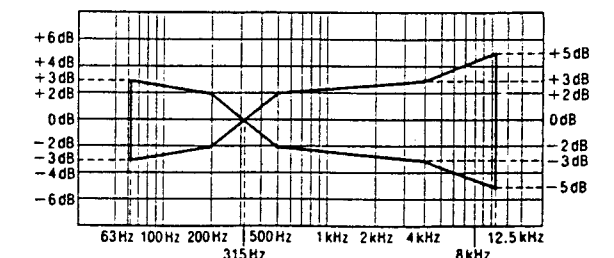


Fig. 6

ERASE CURRENT CONFIRMATION (DECK 2)

1. Insert the Metal blank test tape (QZZCRZ) and set the unit to the Record Pause mode.
2. Check if the output at this time between the erase current confirmation point **TP301** and **TP302** (chassis) (the output on both edges of R302) is within the standard value.

Standard value: $190 \text{ mA} \pm 5 \text{ mA}$ (Metal)

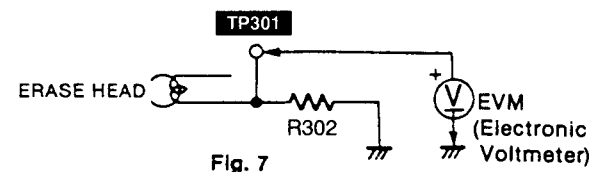


Fig. 7

OVERALL FREQUENCY RESPONSE (DECK 2)

1. Insert the Normal blank test tape (QZZCRA) and set the unit to the Record Pause mode.
2. Apply a reference input signal (1 kHz, -24 dB) through an attenuator.
3. Attenuate the signal by 20 dB and adjust the frequency from 50 Hz ~ 10 kHz.
4. Record the frequency sweep.
5. Playback the recorded signal and assure that it is within the range shown in Fig. 8 in comparison to the reference frequency (1 kHz).
6. If it is not within the standard range, adjust **VR302** (L-CH) and **VR303** (R-CH) so that the frequency level is within the standard range.
 - Level up in high frequency range Increase the bias current.
 - Level down in high frequency range .. Decrease the bias current.
7. Repeat steps 2~6 above using the CrO₂ tape (QZZCRX) and the Metal tape (QZZCRZ) increasing the frequency range to 12.5 kHz (50 Hz ~ 12.5 kHz).
8. Assure that the level is within the range shown in Fig. 9.

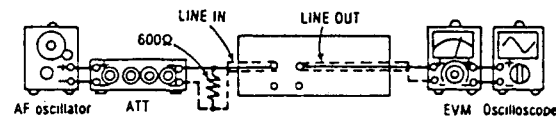


Fig. 10

LINE IN (Lch): **TP1** LINE OUT (Lch): **TP5**
(Rch): **TP2** (Rch): **TP6**

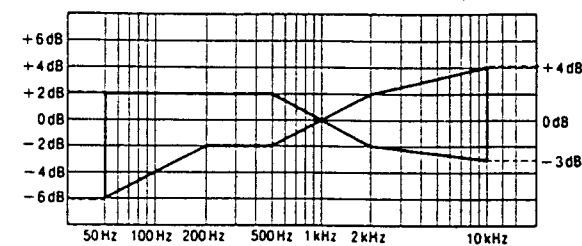
Normal Overall frequency response chart (NR OUT)

Fig. 8

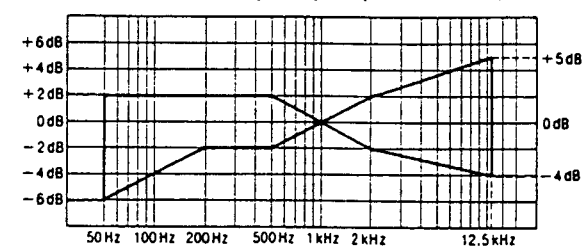
CrO₂ Metal Overall frequency response chart (NR OUT)

Fig. 9

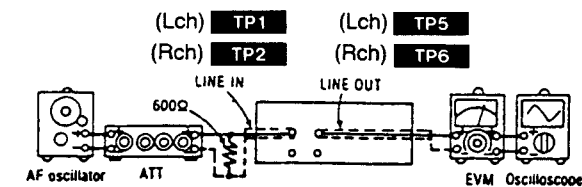
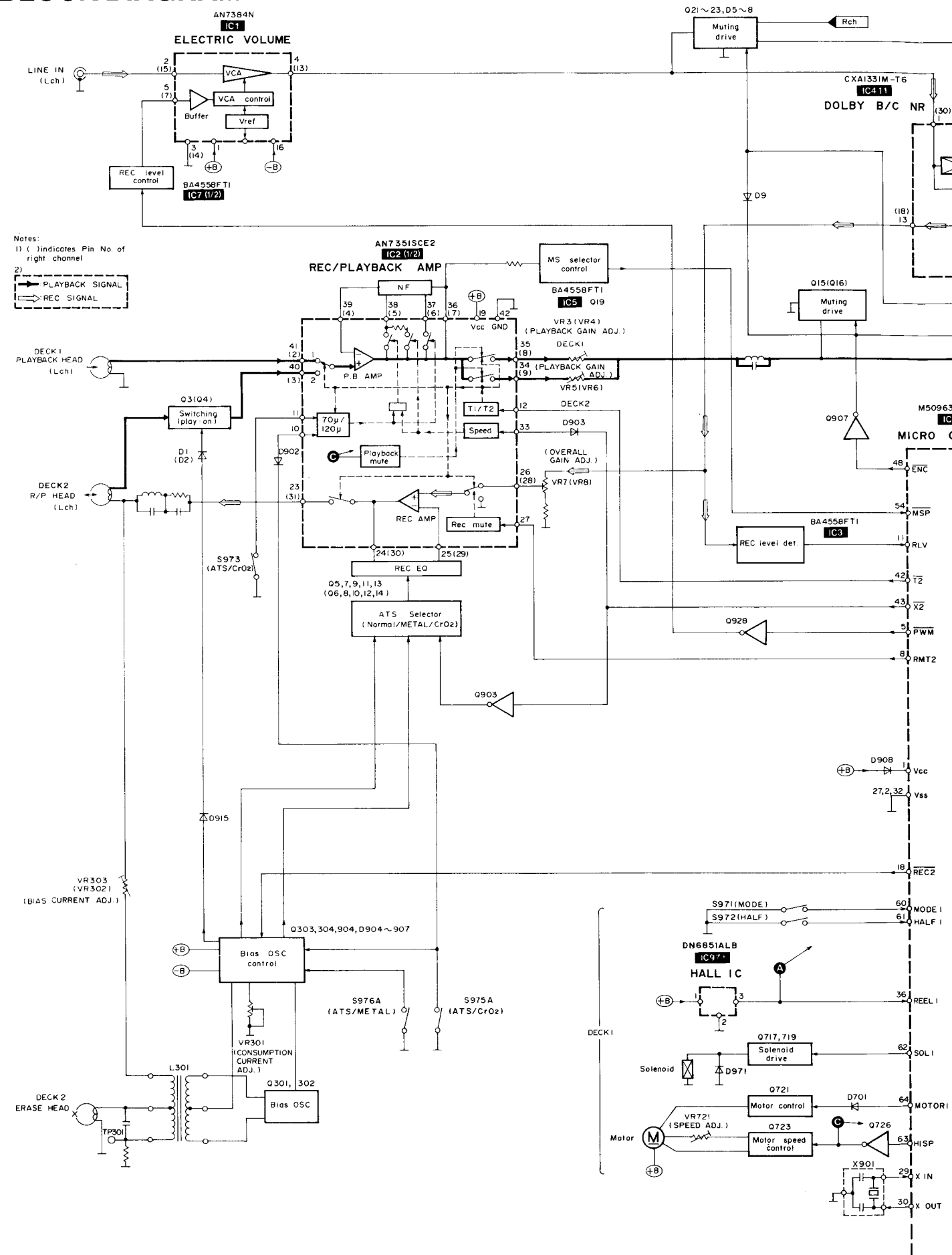


Fig. 11

OVERALL GAIN ADJUSTMENT (DECK 2)

1. Insert the Normal blank test tape (QZZCRA) and set the unit to the Record pause mode.
2. Apply a reference input signal (1 kHz, -19 dB). Attenuate the output so that its level becomes 0.4 V.
3. Record this input signal.
4. Playback the signal recorded in step 3 above, and assure that the output is within the standard value.
5. If it is not within the standard value, adjust **VR7** (L-CH) and **VR8** (R-CH).
6. Repeat the step 2~5 above until the output is within the standard value.

Standard value: $0.4 \text{ V} \pm 0.5 \text{ dB}$

■ BLOCK DIAGRAM

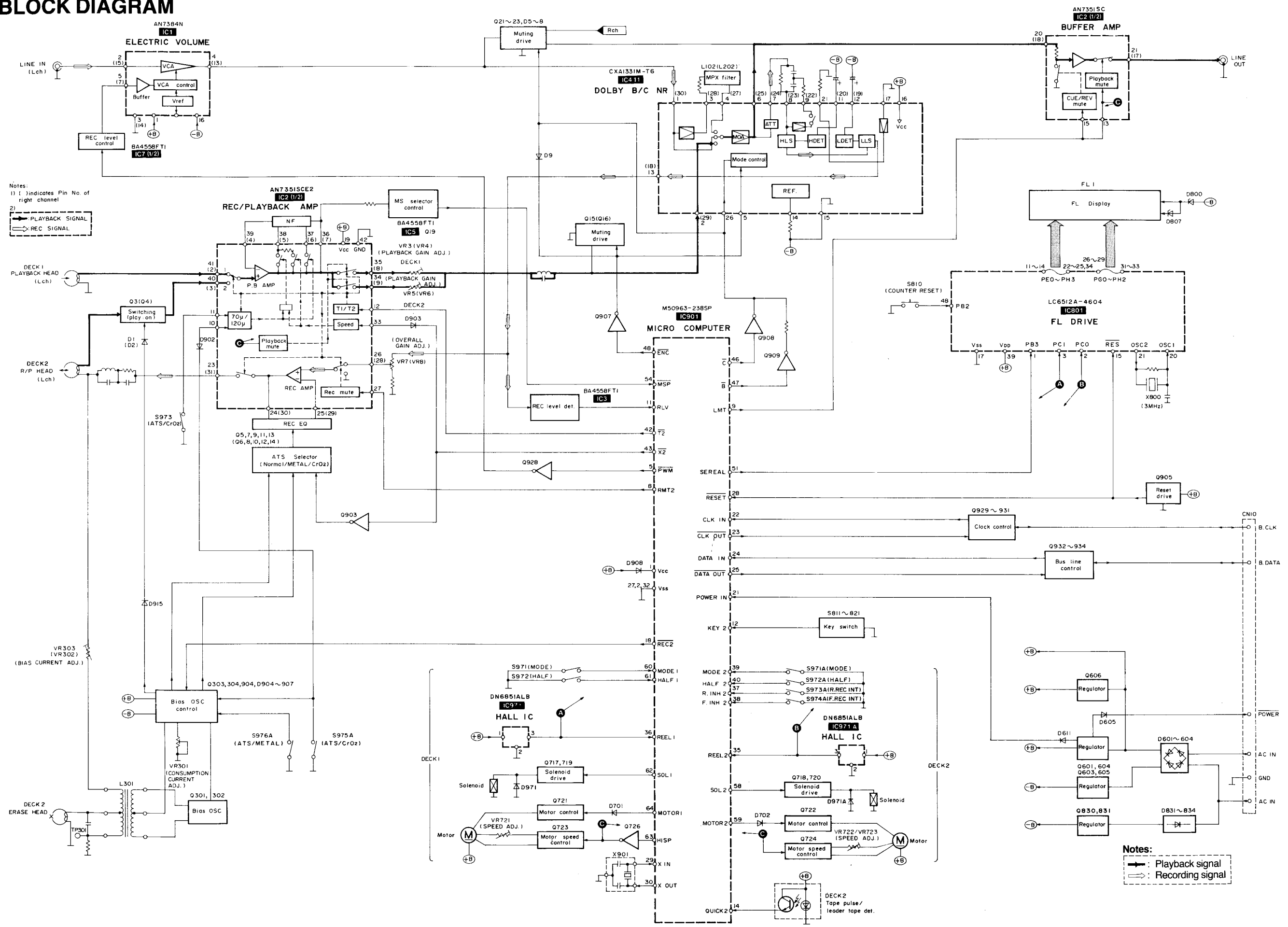
BLOCK DIAGRAM

EVM
(Electronic
Voltmeter)

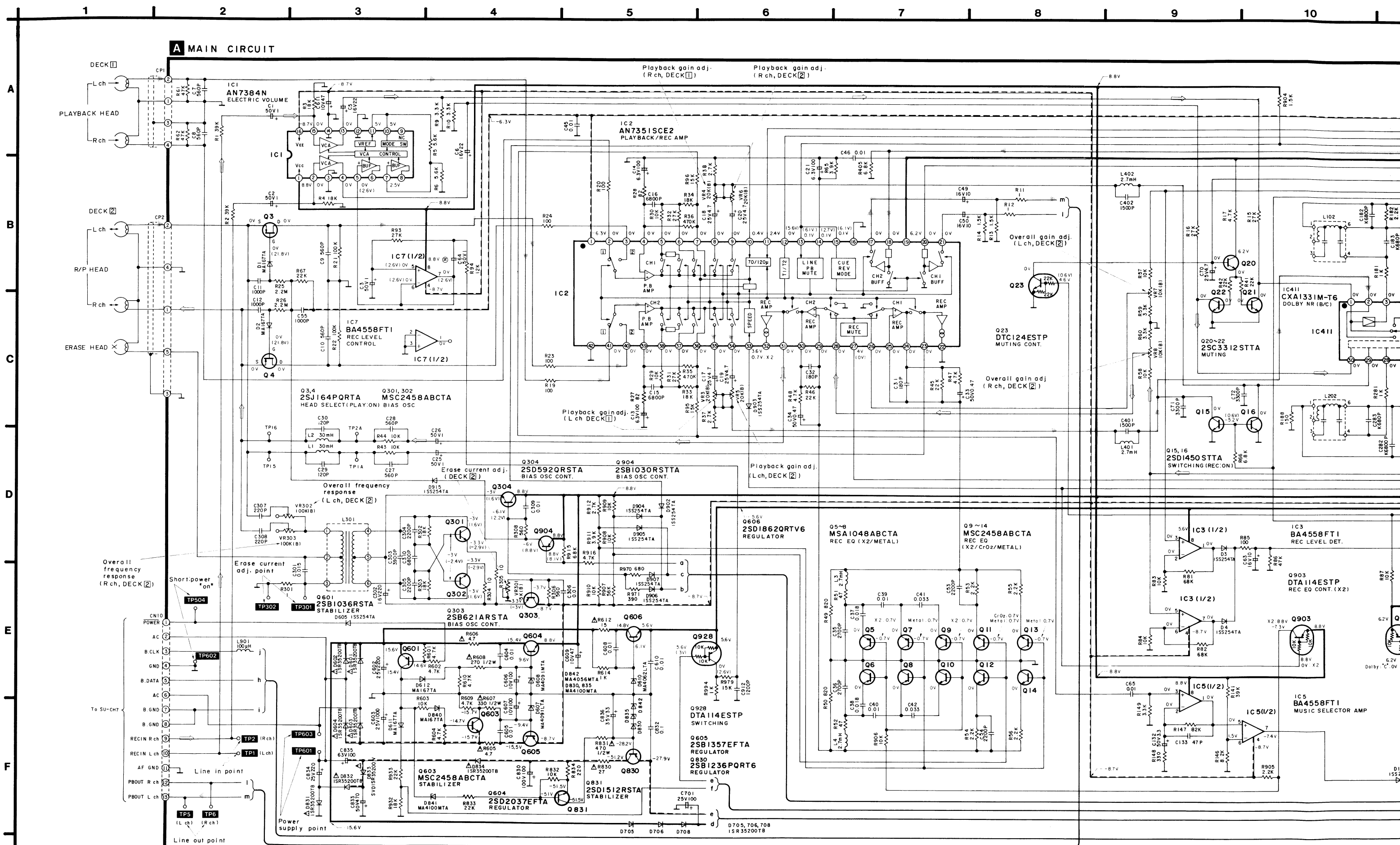
NR OUT)

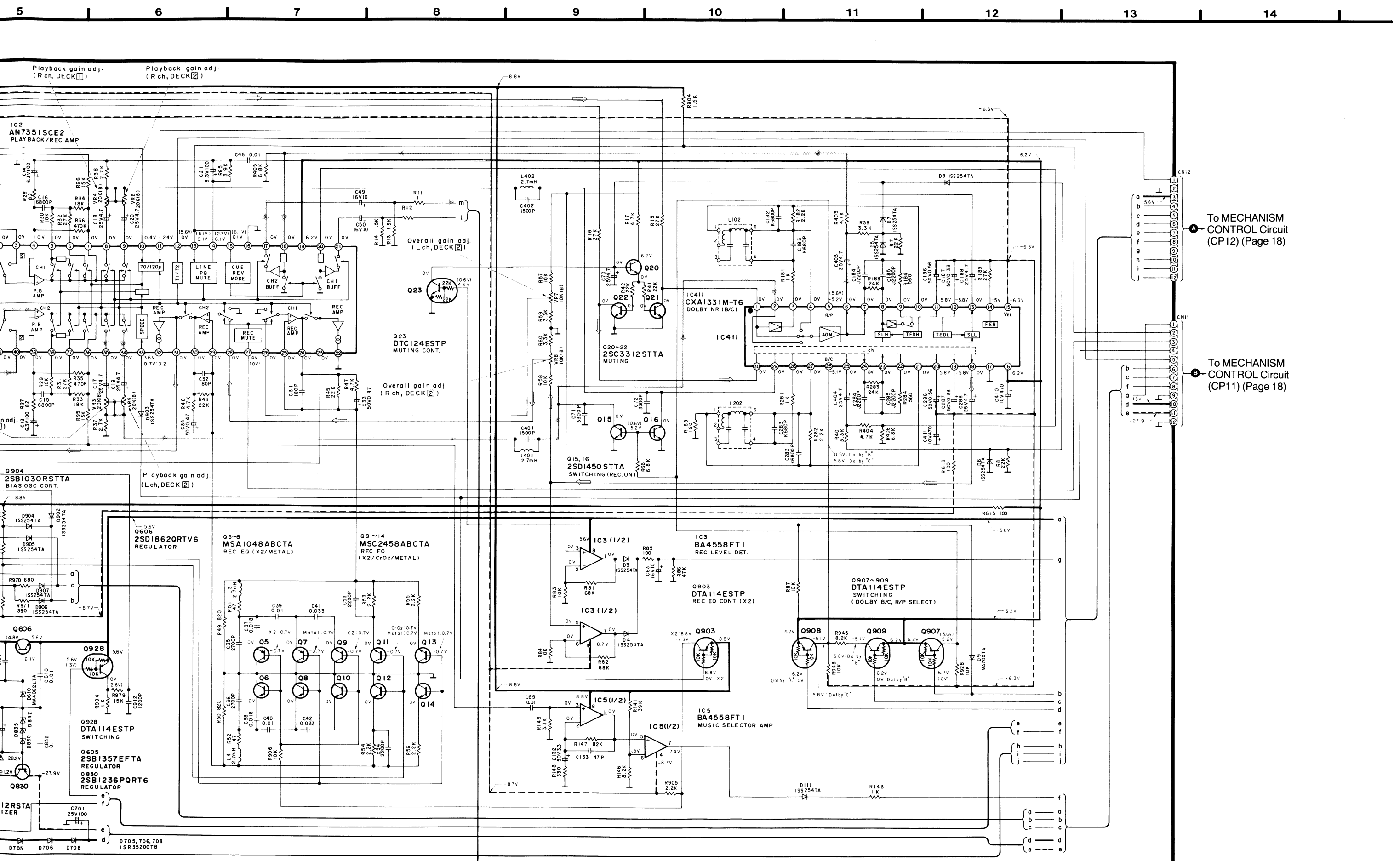
art (NR OUT)

EVM Oscilloscope



■ SCHEMATIC DIAGRAM (Parts list on pages 25~28)





SCHEMATIC DIAGRAM (Parts list on pages 25~28.)

Notes:

- S810 : Counter reset switch in "OFF" position. (COUNTER RESET)
- S811 : Stop switch in "OFF" position. (STOP)
- S812, 813 : FF/REW/MS switch. (S812: ►►, S813: ◄◄)
- S814, 815 : Playback switch. (S814: ►, S815: ◄)
- S816 : Rec pause switch. (REC PAUSE)
- S817 : DECK 1/DECK 2 selector switch.
- S818 : Synchro start switch. (SYNCHRO START)
- S819 : Edit speed switch. (SPEED)
- S820 : Dolby NR switch in "OFF" position.
- S821 : Reverse mode switch. (REVERSE MODE)
- S971A~976A : DECK 2 mechanism leaf switch.

S971A: Mode detect.
S972A: Half detect.
S973A: Reverse side record prevention tab detect.
S974A: Forward side record prevention tab detect.
S975A: ATS (CrO₂).
S976A: ATS (Metal).

- S971~973 : Deck 1 mechanism leaf switch.

S971: Mode detect.
S972: Half detect.
S973: ATS (CrO₂).

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.

Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

No mark...Playback ()...Recording

- Important safety notice:

Components identified by Δ mark have special characteristics important for safety.

When replacing any of these components, use only manufacturer's specified parts.

- This schematic diagram may be modified at any time with the development of new technology.

— : Positive voltage line
— : Playback signal

— : Negative voltage line
— : Recording signal line

Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminum foil.

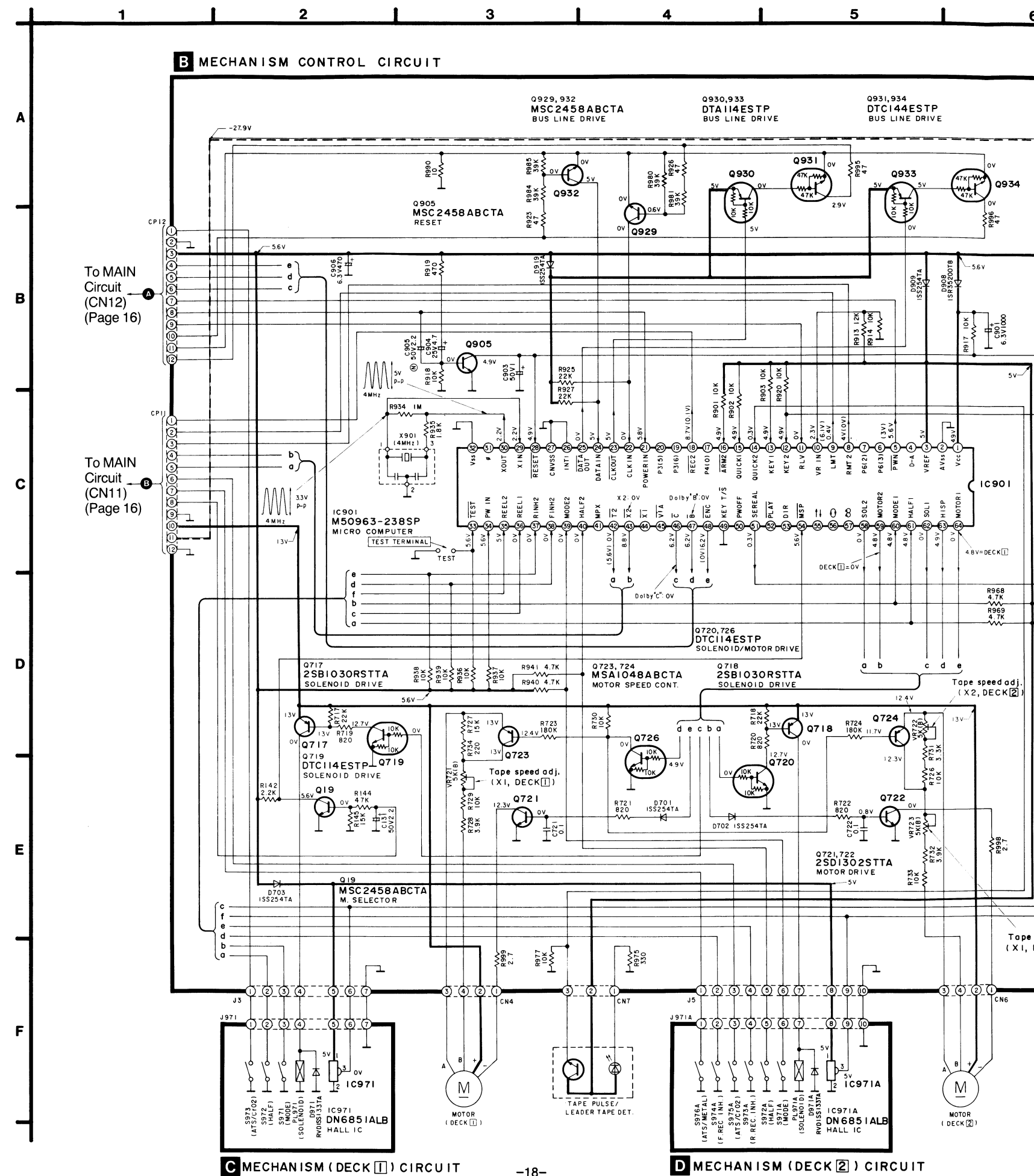
- Ground the soldering iron.

- Put a conductive mat on the work table.

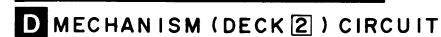
- Do not touch the legs of IC or LSI with the fingers directly.

- The supply part number is described alone in the replacement parts list.

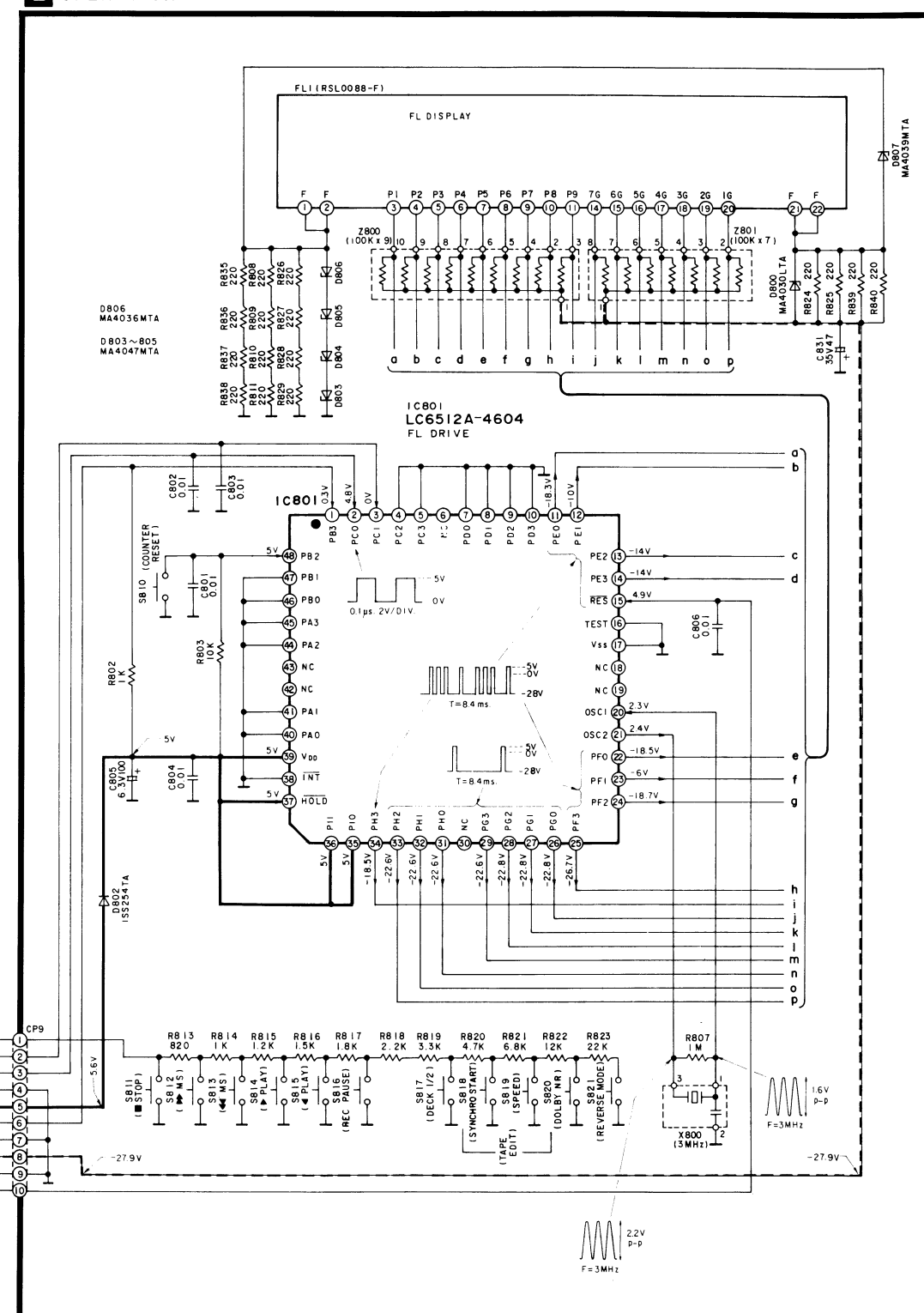
Ref. No.	Production Part No.	Supply Part No.
IC3, 5, 7	BA4558FT1	SVIBA4558F



-18-



-19-



PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM

1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

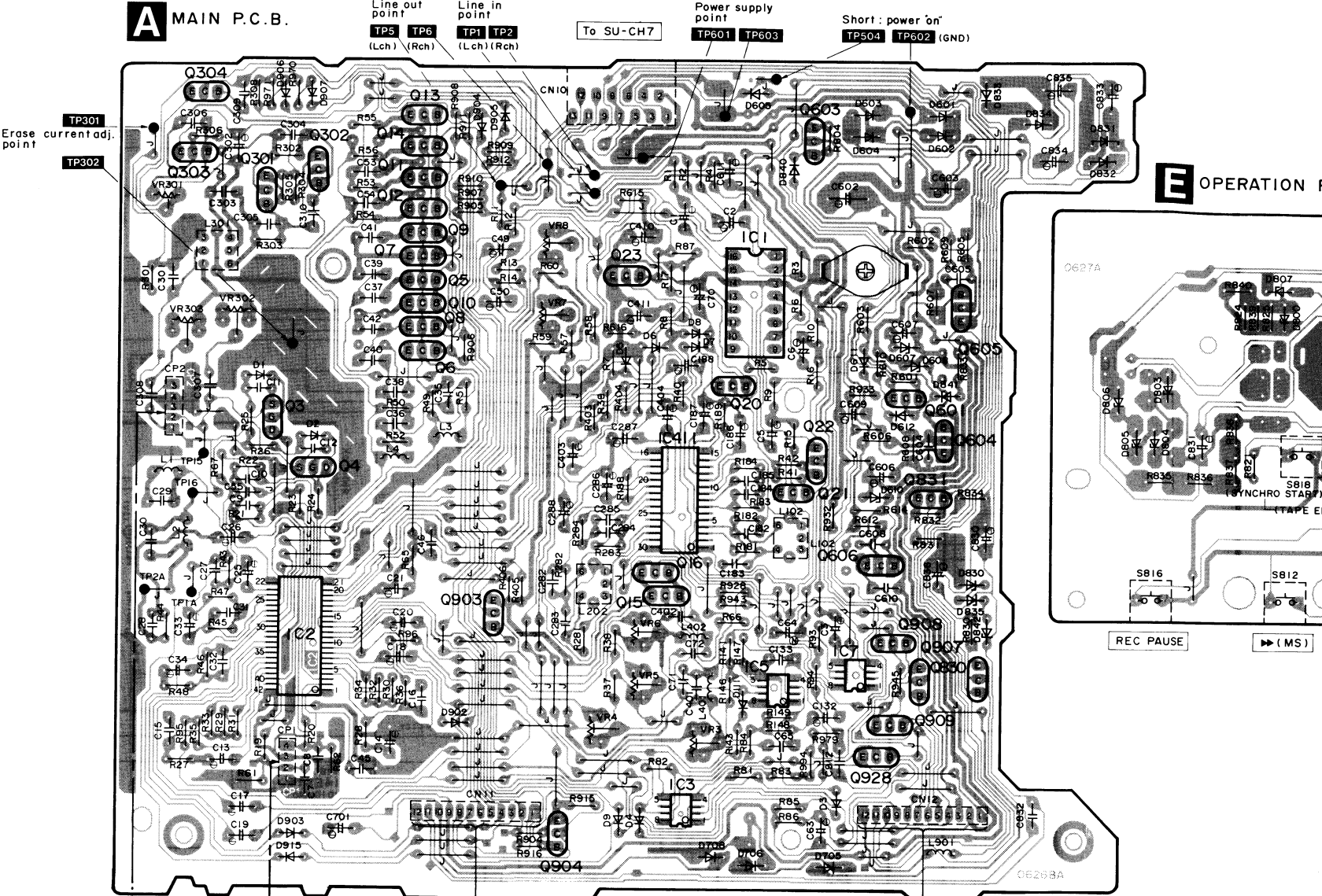
Terminal guide of IC's, transistors and diodes

<div>BA4558FT1</div>	<div>CXA1331M-T6</div>	<div>AN7351SC</div>
<div>AN7384N</div>	<div>M50963-238SP</div>	<div>LC6512A-4604</div>
<div>DN6851A</div>	<div>2SB621ARSTA 2SD592QRSTA 2SD1302STTA</div>	<div>MSA1048ABCTA MSC2458ABCTA</div>
<div></div>	<div>DTA114ESTP DTC114ESTP DTC124ESTP DTC144ESTP</div>	<div>2SB1030RSTTA 2SC3312STTA 2SD1450STTA</div>
<div>2SJ164PQRTA</div>	<div>2SB1357EFTA 2SD2037EFTA</div>	<div>2SB1240QRTV6 2SD1862QRTV6</div>
<div></div>	<div>MA167TA MA700TA 1SS254TA 1SR35200TB</div>	<div>MA4130MTA</div>
<div></div>	<div>MA4030LTA MA4036MTA MA4039MTA MA4047MTA MA4062LTA MA4091LTA</div>	

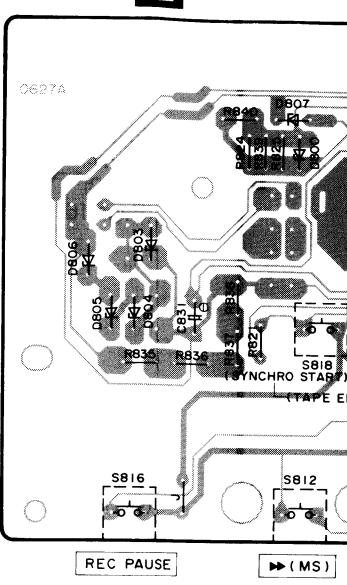
NOTES:

BLK	Black	ORG	Orange
BLU	Blue	PNK	Pink
BRN	Brown	RED	Red
GRY	Gray	SLD	Shield Wire
GRN	Green	VLT	Violet
L.BLU	Light Blue	WHT	White
		YEL	Yellow

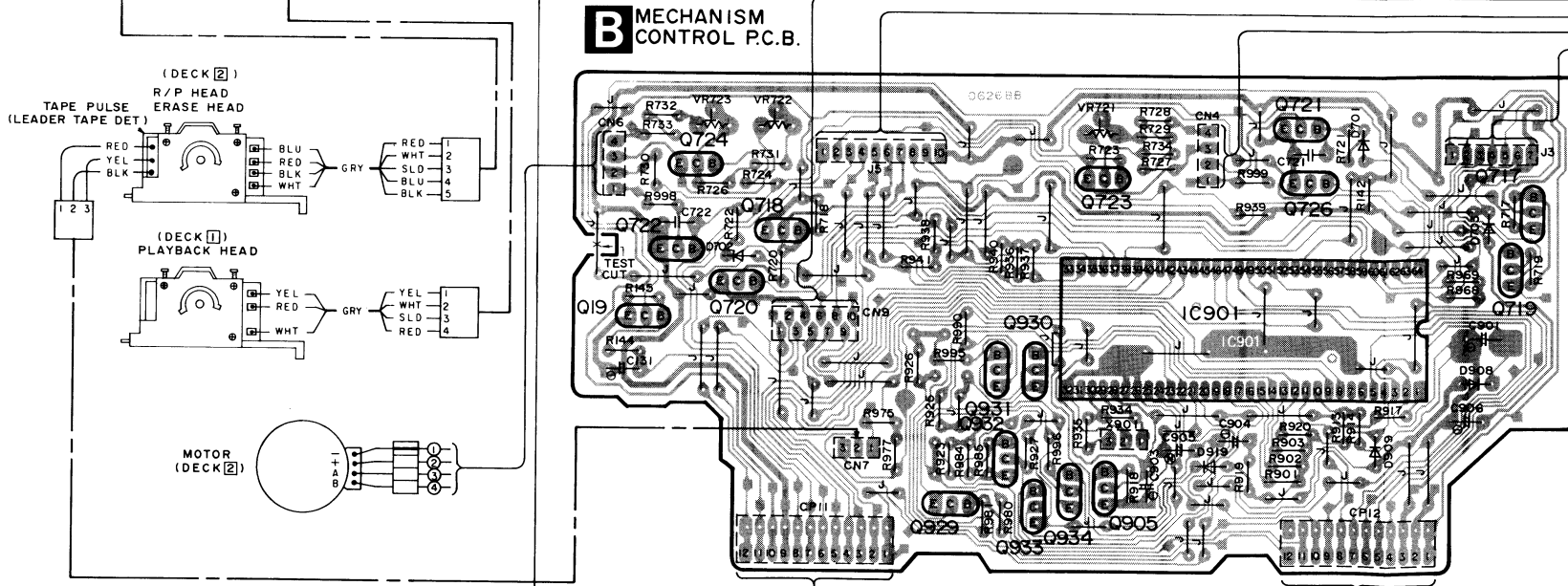
A MAIN P.C.B.



E OPERATION P.C.B.



B MECHANISM CONTROL P.C.B.



Line out point Line in point

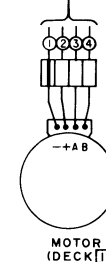
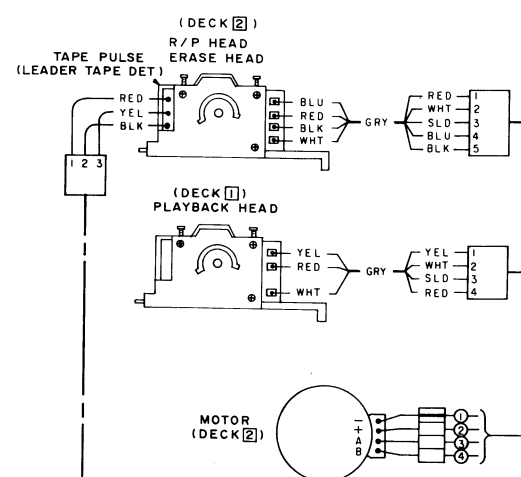
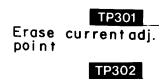
TP5 TP6 TP1 TP2

(Lch) (Rch) (Lch) (Rch)

To: SU-CH7

Power supply
point

Short : power "on"
TP504 **TP602** (GND)



■ FUNCTION OF IC TERMINALS

● IC801 (LC6512A-4604)

Pin No.	Mark	I/O Division	Function
1	PB3	I	Serial data input
2	PC0	I/O	Deck 2 Rotation pulse signal of reel table
3	PC1	I/O	Deck 1 Rotation pulse signal of reel table
4 10	—	—	Connected to GND
11 14	PE0 PE3	O	FL port signal output
15	RES	I	Reset terminal
16	TEST	—	Connected to GND
17	VSS	—	Connected to GND
18 19	NC	—	Not connected
20	OSC1	I/O	Connected to ceramic oscillator (X800)
21	OSC2		

● IC901 (M50963-236SP)

Pin No.	Mark	I/O Division	Function
1	VCC	I	Power supply (+5 V)
2	AVSS	—	Connected to GND
3	VREF	I	Reference voltage input (+5 V)
4	NC	—	Not connected
5	PWN	O	Control voltage terminal of electric volume
6 7	NC	—	Not connected
8	RMT2	O	Rec. amp. mute signal of deck 2 "L" level in mute is off mode "H" level in mute is on mode
9	LMT	O	Line out mute signal
10	VR IN	I	Not used and connected to resistance
11	RLV	I	Recording level detection (at ATLS position)

Pin No.	Mark	I/O Division	Function
22 25	PF0 PF3	O	FL port signal output
26 29	PG0 PG3	O	FL grid signal output
30	NC	—	Not connected
31 34	PH0 PH3	O	FL grid signal output
35 36	P10 P11	—	Not connected
37	HOLD	—	Not connected
38	INT	—	Connected to GND
39	VDD	I	Power supply (+5.6 V)
40 47	—	—	Connected to GND
48	PB2	I	Counter reset terminal

Pin No.	Mark	I/O Division	Function
12	KEY2	I	Key switch input Pin 13 is not used and connected to resistance
13	KEY1		
14	QUICK2	O	Pin 15 is not used and connected to resistance
15	QUICK1		
16	ARM2	I	Mute key input Not used and connected to resistance
17	NC	—	Not connected
18	REC2	I	Recording bias control voltage terminal "L" level when is on "H" level when is off
19 20	NC	—	Not connected
21	POWER IN	I	Power ON/OFF detection terminal
22	CLK IN	I	Clock input for serial data
23	CLK OUT	O	Clock output for serial data

Pin No.	Mark	I/O Division	Function
24	DATA IN	I	Serial data input
25	DATA OUT	O	Serial data output
26	NC	—	Connected to Vss
27	CNVSS	—	Connected to Vss
28	RESET	I	Reset terminal "L" level when reset is off mode "L" → "H" level when reset is on mode
29	X IN	I	Clock OSC terminal Connected to crystal oscillator
30	X OUT	O	
31	NC	—	Not used
32	Vss	—	Connected to GND
33	TEST	—	Test terminal ("L" level)
34	PW IN	I	Not used
35	REEL2	I	Deck 2 Rotation pulse signal of reel table
36	REEL1	I	Deck 1 Rotation pulse signal of reel table
37	RINH2	I	Deck 2 Reverse Rec. Inh. switch select terminal
38	FINH2	I	Deck 2 Forward Rec. Inh. switch select terminal
39	MODE2	I	Deck 2 mechanism mode switch select terminal
40	HALF2	I	Deck 2 cassette half detection switch "L" level in half detection switch is on mode. "H" level in half detection switch is off mode.
41	MPX	—	Not used
42	T2	O	Deck 2 play select signal "L" level with PLAY mode.
43	X2	O	X2 Speed LED display "L" level when LED is on mode
44 45	X1 VIA	O —	Not used

Pin No.	Mark	I/O Division	Function
46	C	O	Dolby C LED display "L" level when LED is on mode "H" level when other mode
47	B	O	"H" level when other mode
48	ENC	O	Encode/Decode select signal "L" level in encode mode "H" level in decode mode
49	KEY T/S	—	Not use and connected to GND
50	PW OFF	—	Not used
51	SERIAL	O	Control for FL micro computer Serial data output
52	PLAY	O	Not used
53	DIR	O	
54	MSP	O	
55	⇄	O	Not used
56	↺	O	
57	↻	O	
58	SOL2	O	Deck 2 Solenoid control signal "H" level when solenoid is on mode "L" level when solenoid is off mode
59	MOTOR2	O	Deck 2 Motor control signal "H" level when motor is on mode "L" level when motor is off mode
60	MODE1	I	Deck 1 mechanism mode switch select terminal
61	HALF1	I	Deck 1 cassette half detection switch "L" level in half detection switch is on mode "H" level in half detection switch is off mode
62	SOL1	O	Deck 1 Solenoid control signal "H" level when solenoid is on mode "L" level when solenoid is off mode
63	HISP	O	Motor speed control signal "L" level when normal speed "H" level when high speed
64	MOTOR1	O	Deck 1 Motor control signal "H" level when motor is on mode "L" level when motor is off mode

REPLACEMENT PARTS LIST

Notes : * Important safety notice: Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts. * The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.) Parts without these indications can be used for all areas.			
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Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		Q932	MSC2458ABCTA	TRANSISTOR	
				Q933	DTA114ESTP	TRANSISTOR	
				Q934	DTC144EKT96	TRANSISTOR	
						DIODE(S)	
IC1	AN7384N	I. C, ELECTRIC VOLUME		D1, 2	MA167	DIODE	
IC2	AN7351SCE2	I. C, PLAYBACK/REC AMP.		D3-8	1SS254TA	DIODE	
IC3	SV1B4558F	I. C, REC LEVEL DET.		D9	MA700TA	DIODE	
IC5	SV1B4558F	I. C, MUSIC SEL. AMP.		D111	1SS254TA	DIODE	
IC7	SV1B4558F	I. C, REC LEVEL CONT.		D601-604	1SR35200TB	DIODE	Δ
IC411	CXA1331M-T6	I. C, DOLBY NR, (B/C)		D605	1SS254TA	DIODE	
IC801	LC8512A-4604	I. C, FL DRIVE		D607	MA4091LTA	DIODE	
IC901	MS0963-238SP	I. C, MICRO COMPUTER		D608	MA4091-M	DIODE	
IC971	DN6851ALB	I. C, HALL		D610	MA4062	DIODE	
IC971A	DN6851ALB	I. C, HALL		D611, 612	MA167	DIODE	
		TRANSISTOR(S)		D701-703	1SS254TA	DIODE	
Q3, 4	2SJ164PQRTA	TRANSISTOR		D705, 706	1SR35200TB	DIODE	
Q5-8	MSA1048ABCTA	TRANSISTOR		D708	1SR35200TB	DIODE	
Q9	MSC2458ABCTA	TRANSISTOR		D800	MA4030LTA	DIODE	
Q10-14	MSC2458ABCTA	TRANSISTOR		D802	1SS254TA	DIODE	
Q15, 16	2SD1450STTA	TRANSISTOR		D803-805	MA4047MTA	DIODE	
Q19	MSC2458ABCTA	TRANSISTOR		D806	MA4036MTA	DIODE	
Q20-22	2SC3312STTA	TRANSISTOR		D807	MA4039MTA	DIODE	
Q23	DTC124EST	TRANSISTOR		D830	MA4100MTA	DIODE	
Q301, 302	MSC2458ABCTA	TRANSISTOR		D831, 832	1SR35200TB	DIODE	Δ
Q303	2SB621A-R	TRANSISTOR		D833	SVD1SR35200A	DIODE	Δ
Q304	2SD592NCR	TRANSISTOR		D834	1SR35200TB	DIODE	Δ
Q601	2SB1036RSTA	TRANSISTOR		D835	MA4100MTA	DIODE	
Q603	MSC2458ABCTA	TRANSISTOR		D840	MA167	DIODE	
Q604	2SD2037EFTA	TRANSISTOR		D841	MA4100MTA	DIODE	
Q605	2SB1357EFTA	TRANSISTOR		D842	MA4056MTA	DIODE	
Q606	2SD1862QRTV6	TRANSISTOR		D902-907	1SS254TA	DIODE	
Q717, 718	2SB1030QTA	TRANSISTOR		D908	1SR35200TB	DIODE	
Q719, 720	DTC114ESTP	TRANSISTOR		D909	1SS254TA	DIODE	
Q721, 722	2SD1302STTA	TRANSISTOR		D915	1SS254TA	DIODE	
Q723, 724	MSA1048ABCTA	TRANSISTOR		D919	1SS254TA	DIODE	
Q726	DTC114ESTP	TRANSISTOR		D971	RVD1SS133TA	DIODE	
Q830	2SB1236PQRT6	TRANSISTOR		D971A	RVD1SS133TA	DIODE	
Q831	2SD1512R	TRANSISTOR				VARIABLE RESISTOR(S)	
Q903	DTA114ESTP	TRANSISTOR					
Q904	2SB1030QTA	TRANSISTOR					
Q905	MSC2458ABCTA	TRANSISTOR					
Q907-909	DTA114ESTP	TRANSISTOR		VR3-6	EVNDXAA00B24	V. R, PLAYBACK GAIN ADJ.	
Q928	DTA114ESTP	TRANSISTOR		VR7, 8	EVNDXAA00B14	V. R, REC/PLAYBACK LEVEL ADJ.	
Q929	MSC2458ABCTA	TRANSISTOR		VR301	EVNDXAA00B53	V. R, ERASE CURRENT ADJ.	
Q930	DTA114ESTP	TRANSISTOR		VR302, 303	EVNDXAA00B15	V. R, OVERALL FREQ. ADJ.	
Q931	DTC144EKT96	TRANSISTOR		VR721-723	EVNDCAA03B53	V. R, TAPE SPEED ADJ.	

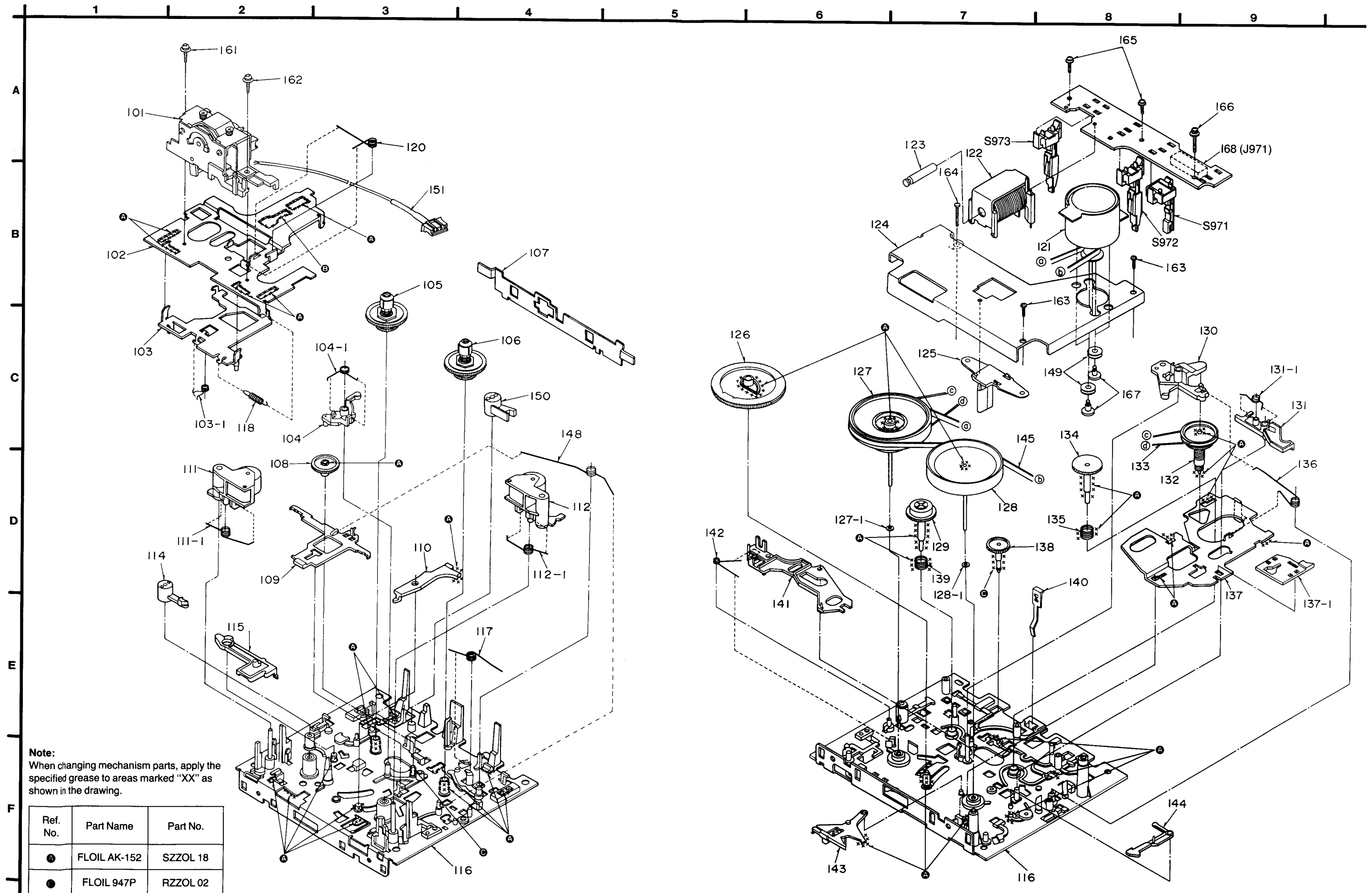
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		COMPONENT COMBINATION(S)		CN6	RJS1A1704	SOCKET(4P)	
				CN7	SJTD313	CONNECTOR(3P)	
				CN9	RJS10Q8ZA	SOCKET(10P)	
2800	EXBF10E104J	COMPONENT COMBINATION		CN10	RJT055B013	CONNECTOR(13P)	
2801	EXBF8E104J	COMPONENT COMBINATION		CN11, 12	RJT057W012-1	CONNECTOR(12P)	
		COIL(S)		CP1	SJTD413	CONNECTOR(4P)	
				CP2	RJP5G18ZA	CONNECTOR(5P)	
				CP9	RJS10Q9ZA	SOCKET(10P)	
L1, 2	SLQX303-1KT	COIL		CP11, 12	RJU057W012	SOCKET(12P)	
L3, 4	SLQX272-1YT	COIL		J3	RJS7T4ZA	SOCKET(7P)	
L102	RLM2B005-1M	COIL		J5	SJSB1005	SOCKET(10P)	
L202	RLM2B005-1M	COIL					
L301	SL09B4-K	COIL					
L401, 402	SLQX272-1YT	COIL					
L901	ELEXT101KA9	COIL					
		OSCILLATOR(S)					
X800	EF0GC3004T4	OSCILLATOR					
X901	EF0GC4004A4	OSCILLATOR					
		DISPLAY					
FL1	RSL0088-F	DISPLAY					
		SWITCH(ES)					
S810	EVQ21405R	SW, COUNTER RESET					
S811	EVQ21405R	SW, STOP					
S812	EVQ21405R	SW, MS (FF)					
S813	EVQ21405R	SW, MS (REW)					
S814	EVQ21405R	SW, F PLAY					
S815	EVQ21405R	SW, R PLAY					
S816	EVQ21405R	SW, REC PAUSE					
S817	EVQ21405R	SW, DECK 1/2					
S818	EVQ21405R	SW, SYNCHRO START					
S819	EVQ21405R	SW, SPEED					
S820	EVQ21405R	SW, DOLBY NR					
S821	EVQ21405R	SW, REVERSE MODE					
S971	RSH1A89Z	SW, MODE (DECK1)					
S971A	RSH1A89Z	SW, MODE (DECK2)					
S972	RSH1A90YB-U	SW, HALF (DECK1)					
S972A	RSH1A90YB-U	SW, HALF (DECK2)					
S973	RSH1A90YB-U	SW, ATS/Cr02 (DECK1)					
S973A	RSH1A90YB-U	SW, R. REC INH(DECK2)					
S974A	RSH1A90YB-U	SW, F. REC INH(DECK2)					
S975A	RSH1A90YB-U	SW, ATS/Cr02 (DECK2)					
S976A	RSH1A90YB-U	SW, ATS/METAL (DECK2)					
		CONNECTOR(S)					
CN4	RJS1A1704	SOCKET(4P)					

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise,P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS	R145	ERDS2TJ153	1/4W 15K	R815	ERDS2TJ122	1/4W 1.2K
			R146	ERDS2TJ822	1/4W 8.2K	R816	ERDS2TJ152	1/4W 1.5K
			R147	ERDS2TJ823T	1/4W 82K	R817	ERDS2TJ182	1/4W 1.8K
R1, 2	ERDS2TJ393	1/4W 39K	R148	ERDS2TJ331	1/4W 330	R818	ERDS2TJ222	1/4W 2.2K
R3, 4	ERDS2TJ183T	1/4W 18K	R149	ERDS2TJ332	1/4W 3.3K	R819	ERDS2TJ332	1/4W 3.3K
R5, 6	ERDS2TJ562	1/4W 5.6K	R181	ERDS2TJ102	1/4W 1K	R820	ERDS2TJ472	1/4W 4.7K
R7, 8	ERDS2TJ223	1/4W 22K	R182	ERDS2TJ222	1/4W 2.2K	R821	ERDS2TJ682T	1/4W 6.8K
R9	ERDS2TJ332	1/4W 3.3K	R183	ERDS2TJ243T	1/4W 24K	R822	ERDS2TJ123	1/4W 12K
R10	ERDS2TJ332	1/4W 3.3K	R184	ERDS2TJ561	1/4W 560	R823	ERDS2TJ223	1/4W 22K
R11, 12	ERDS2TJ1R0	1/4W 1.0	R188	ERDS2TJ151	1/4W 150	R824-829	ERDS2TJ221	1/4W 220
R13, 14	ERDS2TJ152	1/4W 1.5K	R189	ERDS2TJ273	1/4W 27K	R830	ERD2FCVG270T	1/4W 27 Δ
R15, 16	ERDS2TJ273	1/4W 27K	R281	ERDS2TJ102	1/4W 1K	R831	ERDS1FVJ471T	1/2W 470 Δ
R17	ERDS2TJ472	1/4W 4.7K	R282	ERDS2TJ222	1/4W 2.2K	R832	ERDS2TJ103	1/4W 10K
R19, 20	ERDS2TJ101	1/4W 100	R283	ERDS2TJ243T	1/4W 24K	R833	ERDS2TJ223	1/4W 22K
R21, 22	ERDS2TJ104	1/4W 100K	R284	ERDS2TJ561	1/4W 560	R834-840	ERDS2TJ221	1/4W 220
R23, 24	ERDS2TJ101	1/4W 100	R301	ERDS2TJ1R0	1/4W 1.0	R901-903	ERDS2TJ103	1/4W 10K
R25, 26	ERDS2TJ225	1/4W 2.2M	R302, 303	ERDS2TJ183T	1/4W 18K	R904	ERDS2TJ152	1/4W 1.5K
R27, 28	ERDS2EJ820	1/4W 82	R304, 305	ERDS2TJ100	1/4W 10	R905	ERDS2TJ222	1/4W 2.2K
R29, 30	ERDS2TJ103	1/4W 10K	R306	ERDS2TJ561	1/4W 560	R906	ERDS2TJ103	1/4W 10K
R31, 32	ERDS2TJ273	1/4W 27K	R308	ERDS2TJ561	1/4W 560	R907	ERDS2TJ563	1/4W 56K
R33, 34	ERDS2TJ183T	1/4W 18K	R403, 404	ERDS2TJ472	1/4W 4.7K	R908-910	ERDS2TJ103	1/4W 10K
R35, 36	ERDS2TJ474	1/4W 470K	R405, 406	ERDS2TJ682T	1/4W 6.8K	R911	ERDS2TJ392T	1/4W 3.9K
R37, 38	ERDS2TJ272T	1/4W 2.7K	R601, 602	ERDS2TJ472	1/4W 4.7K	R912	ERDS2TJ272T	1/4W 2.7K
R39, 40	ERDS2TJ332	1/4W 3.3K	R603	ERDS2TJ103	1/4W 10K	R913	ERDS2TJ123	1/4W 12K
R41, 42	ERDS2TJ223	1/4W 22K	R604	ERDS2TJ472	1/4W 4.7K	R914	ERDS2TJ103	1/4W 10K
R43, 44	ERDS2TJ103	1/4W 10K	R605, 606	ERD2FCVJ4R7T	1/4W 4.7 Δ	R915	ERDS2TJ683	1/4W 68K
R45, 46	ERDS2TJ223	1/4W 22K	R607	ERDS1FVJ331T	1/2W 330 Δ	R916	ERDS2TJ472	1/4W 4.7K
R47, 48	ERDS2TJ472	1/4W 4.7K	R608	ERDS1FVJ271T	1/2W 270 Δ	R917, 918	ERDS2TJ103	1/4W 10K
R49, 50	ERDS2TJ821	1/4W 820	R609, 610	ERDS2TJ472	1/4W 4.7K	R919	ERDS2TJ471	1/4W 470
R51, 52	ERDS2TJ470	1/4W 47	R612	ERD2FCVG150T	1/4W 15 Δ	R920	ERDS2TJ103	1/4W 10K
R53-56	ERDS2TJ222	1/4W 2.2K	R614	ERDS2TJ102	1/4W 1K	R923	ERDS2TJ470	1/4W 47
R57, 58	ERDS2TJ103	1/4W 10K	R615, 616	ERDS2TJ101	1/4W 100	R925	ERDS2TJ223	1/4W 22K
R59, 60	ERDS2TJ332	1/4W 3.3K	R717, 718	ERDS2TJ223	1/4W 22K	R926	ERDS2TJ470	1/4W 47
R61, 62	ERDS2TJ473	1/4W 47K	R719-722	ERDS2TJ821	1/4W 820	R927	ERDS2TJ223	1/4W 22K
R65	ERDS2TJ392T	1/4W 3.9K	R723, 724	ERDS2TJ184T	1/4W 180K	R928	ERDS2TJ103	1/4W 10K
R66	ERDS2TJ682T	1/4W 6.8K	R726	ERDS2TJ103	1/4W 10K	R932	ERDS2TJ183T	1/4W 18K
R67	ERDS2TJ223	1/4W 22K	R727	ERDS2TJ153	1/4W 15K	R933	ERDS2TJ223	1/4W 22K
R81, 82	ERDS2TJ683	1/4W 68K	R728	ERDS2TJ392T	1/4W 3.9K	R934	ERDS2TJ105T	1/4W 1M
R83, 84	ERDS2TJ103	1/4W 10K	R729, 730	ERDS2TJ103	1/4W 10K	R935	ERDS2TJ182	1/4W 1.8K
R85	ERDS2TJ101	1/4W 100	R731	ERDS2TJ332	1/4W 3.3K	R936-939	ERDS2TJ103	1/4W 10K
R86	ERDS2TJ473	1/4W 47K	R732	ERDS2TJ392T	1/4W 3.9K	R940, 941	ERDS2TJ472	1/4W 4.7K
R87	ERDS2TJ103	1/4W 10K	R733	ERDS2TJ103	1/4W 10K	R943	ERDS2TJ103	1/4W 10K
R93	ERDS2TJ273	1/4W 27K	R734	ERDS2TJ221	1/4W 220	R945	ERDS2TJ822	1/4W 8.2K
R94	ERDS2TJ123	1/4W 12K	R802	ERDS2TJ102	1/4W 1K	R968, 969	ERDS2TJ472	1/4W 4.7K
R95, 96	ERDS2TJ153	1/4W 15K	R803	ERDS2TJ103	1/4W 10K	R970	ERDS2TJ681	1/4W 680
R141	ERDS2TJ393	1/4W 39K	R807	ERDS2TJ105T	1/4W 1M	R971	ERDS2TJ391	1/4W 390
R142	ERDS2TJ222	1/4W 2.2K	R808-811	ERDS2TJ221	1/4W 220	R975	ERDS2TJ331	1/4W 330
R143	ERDS2TJ102	1/4W 1K	R813	ERDS2TJ821	1/4W 820	R977	ERDS2TJ103	1/4W 10K
R144	ERDS2TJ473	1/4W 47K	R814	ERDS2TJ102	1/4W 1K	R979	ERDS2TJ153	1/4W 15K

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks			
R980, 981	ERDS2TJ393	1/4W 39K	C302	ECEA1CU221	16V 220U			
R984, 985	ERDS2TJ393	1/4W 39K	C303	ECKR1H392KB5	50V 3900P			
R990	ERDS2TJ100	1/4W 10	C304, 305	ECFR1E222KV	25V 2200P			
R994	ERDS2TJ102	1/4W 1K	C306	ECKR1H103ZF5	50V 0.01U			
R995, 996	ERDS2TJ470	1/4W 47	C307, 308	ECBT1H221KB5	50V 220P			
R998, 999	ERDS2TJ2R7T	1/4W 2.7	C309	ECKR1H103ZF5	50V 0.01U			
		CAPACITORS	C310	ECFR1E682KV	25V 6800P			
			C401, 402	ECBT1C152JR5	16V 1500P			
			C403, 404	ECEA1EKA4R7B	25V 4.7U			
C1-3	ECEA1HKA010B	50V 1U	C410, 411	ECEA1AJ471	10V 470U			
C5, 6	ECEA1CU220	16V 22U	C602	ECEA1EU222B	25V 2200U			
C7-9	ECBT1H561KB5	50V 560P	C603	ECEA1EU102B	25V 1000U			
C10	ECBT1H561KB5	50V 560P	C604, 605	ECBT1C103MS5	16V 0.01U			
C11, 12	ECBT1H102KB5	50V 1000P	C606, 607	ECEA1AJ101	10V 100U			
C13, 14	ECEA0JKA101B	6.3V 100U	C608	ECBT1C103MS5	16V 0.01U			
C15, 16	ECQB1H682J23	50V 6800P	C609	ECEA1AJ470	10V 47U			
C17-20	ECEA1EKA4R7B	25V 4.7U	C610	ECKR1H103ZF5	50V 0.01U			
C21	ECEA0JKA101B	6.3V 100U	C611	ECEA1AJ470	10V 47U			
C25, 26	ECEA1HKA010B	50V 1U	C701	ECEA1EU101	25V 100U			
C27, 28	ECBT1H561KB5	50V 560P	C721, 722	ECFR1H104ZF	50V 0.1U			
C29, 30	ECKR2H121KB5	500V 120P	C801-804	ECBT1C103MS5	16V 0.01U			
C31, 32	ECCR1H181K5	50V 180P	C805	ECEA0JKS101B	6.3V 100U			
C33, 34	ECEA1HKA47B	50V 0.47U	C806	ECBT1C103MS5	16V 0.01U			
C35, 36	ECFR1C272JR	16V 2700P	C830	ECA2AM101B	100V 100U			
C37, 38	ECFR1C183JR	16V 0.018U	C831	ECEA1VKS470Q	35V 47U			
C39, 40	ECFR1C103JR	16V 0.01U	C832	ECFR1H104ZF	50V 0.1U			
C41, 42	ECFR1C333JR	16V 0.033U	C833	ECA1HM471B	50V 470U			
C45, 46	ECKR1H103ZF5	50V 0.01U	C834	ECEA1EU221	25V 220U			
C49, 50	ECEA1CKA100B	16V 10U	C835	ECA1JM101B	63V 100P			
C53, 54	ECFR1C222JR	16V 2200P	C836	ECEA1VKA330B	35V 33U			
C55	ECBT1H102KB5	50V 1000P	C901	ECEA0JU102	6.3V 1000U			
C63	ECEA1CKA100B	16V 10U	C903	ECEA1HKA010B	50V 1U			
C64	ECEA1HN010	50V 1U	C904	ECEA1EKA4R7B	25V 4.7U			
C65	ECFR1C103JR	16V 0.01U	C905	ECEA1HSN2R2B	50V 2.2U			
C70	ECEA1EKA4R7B	25V 4.7U	C906	ECEA0JU471	6.3V 470U			
C71, 72	ECBT1C332KR5	16V 3300P	C912	ECKT1H122KB	50V 1200P			
C131	ECEA1HN2R2B	50V 2.2U						
C132	ECEA1HKA3R3B	50V 3.3U						
C133	ECCR1H470K5	50V 47P						
C182	ECBT1C682KR5	16V 6800P						
C183	ECBA1H681KB5	50V 680P						
C184, 185	ECBT1C222JR5	16V 2200P						
C186	ECEA1HUR56B	50V 0.56U						
C187	ECEA1HUR33	50V 0.33U						
C188	ECEA1EKA4R7B	25V 4.7U						
C282	ECBT1C682KR5	16V 6800P						
C283	ECBA1H681KB5	50V 680P						
C284, 285	ECBT1C222JR5	16V 2200P						
C286	ECEA1HUR56B	50V 0.56U						
C287	ECEA1HUR33	50V 0.33U						
C288	ECEA1EKA4R7B	25V 4.7U						
C301	ECQP1153JZ	100V 0.015U						

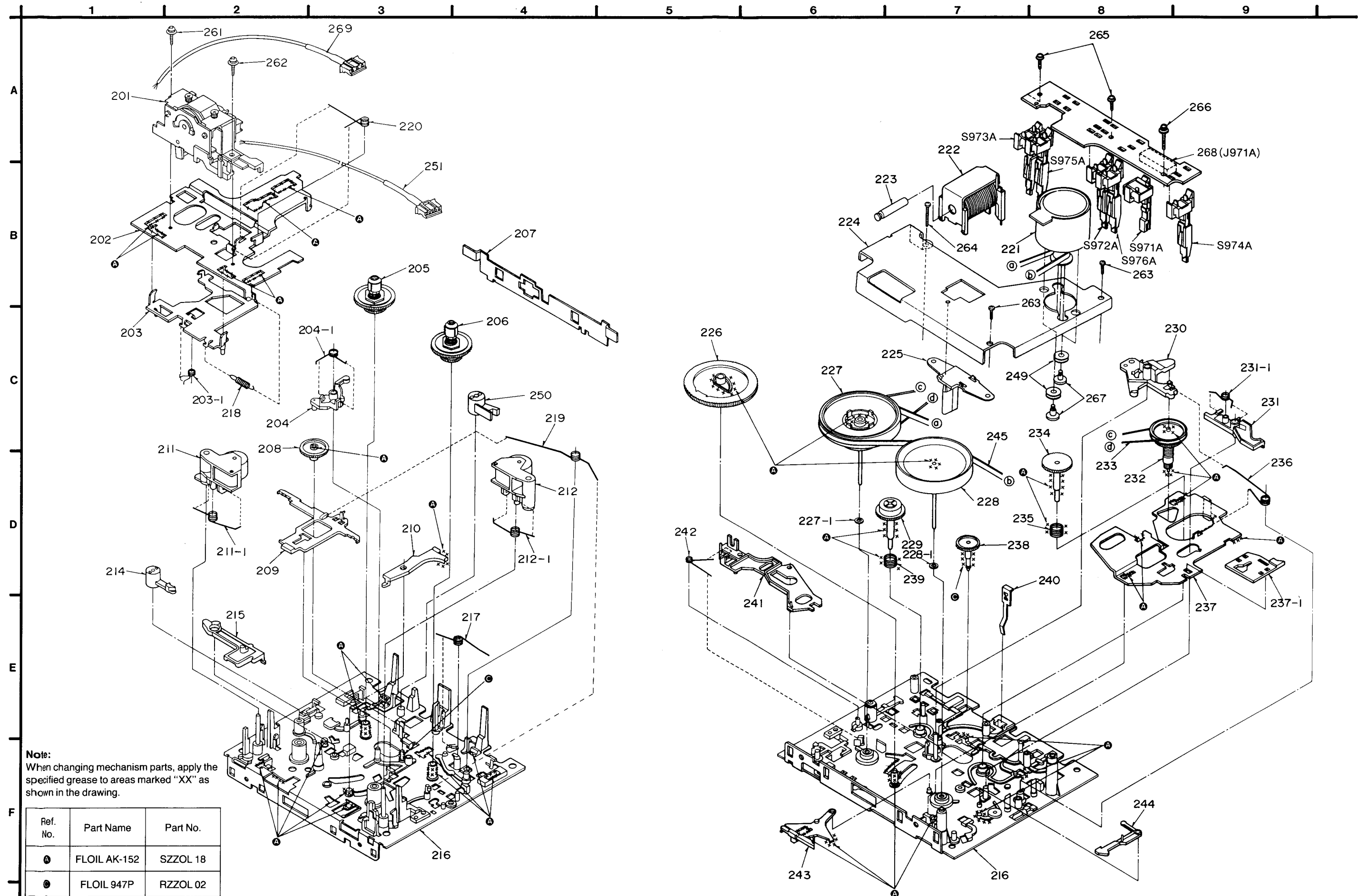
MECHANISM PARTS LOCATION •DECK 1



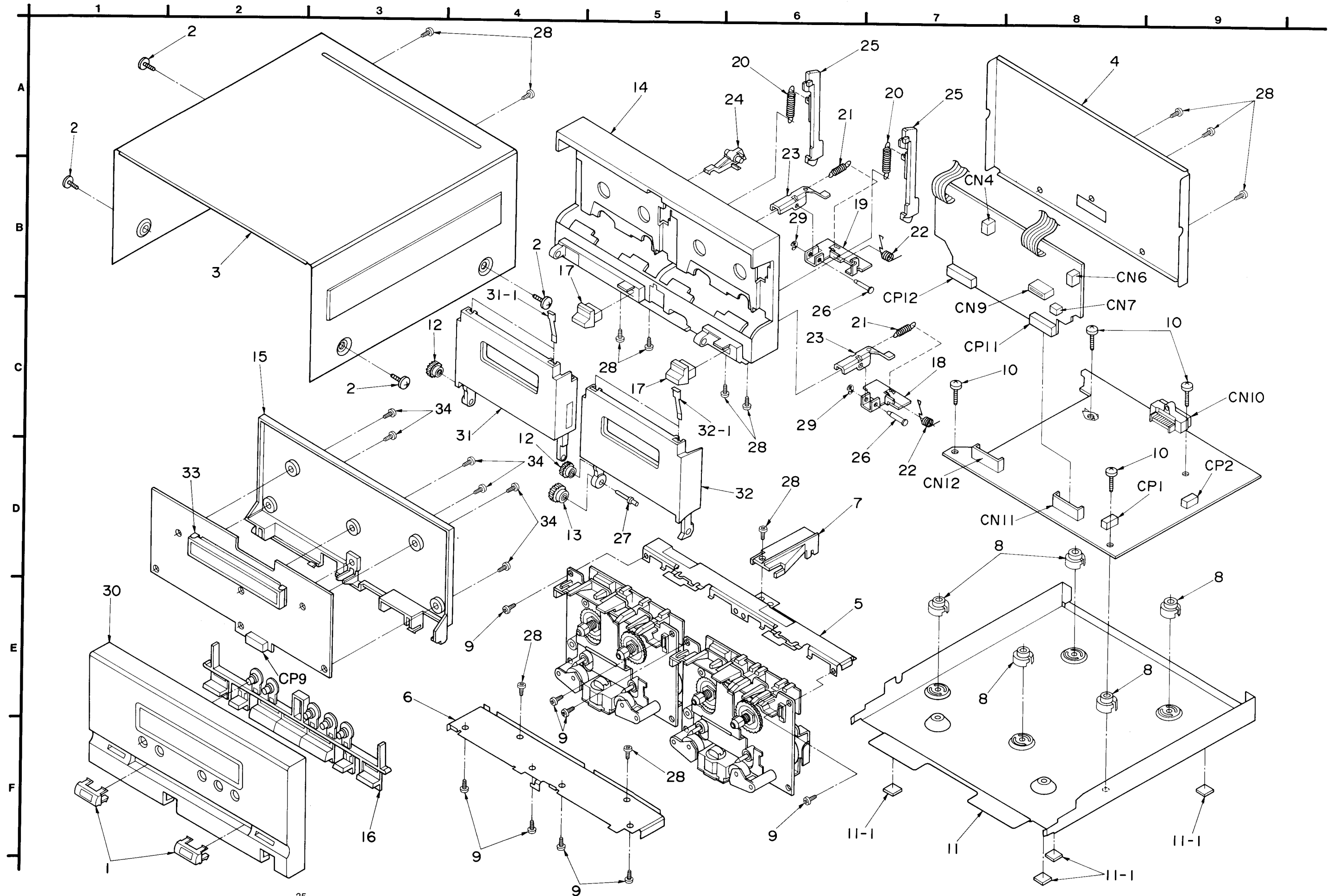
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST		144	RUB509ZA	LEVER	
(DECK1)				145	RDV108ZA	CAPSTAN BELT	
101	RXQ0051-1	HEAD BLOCK (PLAY)		148	RJW144ZA	SPRING	
102	RJA793ZF	HEAD BASE		149	RHG3032ZA	RUBBER CUSHION	
103	RZLAR300A	ROD		150	RNL180ZB	DAMPER ARM	
103-1	RJW143ZA	SPRING		151	REX013Z	LEAD WIRE (4P)	
104	1UB0089ZA	ARM		161	XTW2+6L	SCREW	
104-1	RJW148ZA	SPRING		162	XTW2+8L	SCREW	
105	1DM0018ZB	REEL TABLE (R)		163	XTN26+7J	SCREW	
106	1DM0017ZB	REEL TABLE (F)		164	RHE5203ZA	SCREW	
107	RML0069-1	LEVER		165	XTW2+8S	SCREW	
108	RDG5772ZC	GEAR		166	XYC2+JF16	SCREW	
109	RUB508ZB	BRACKET ROD		167	RHD2600Z	SCREW	
110	RUB506ZB	LEVER		168	RJS7T7ZA	CONNECTOR (7P) J971	
111	1UB0088ZB	ARM (R)					
111-1	RJW141ZA	SPRING					
112	1UB0087ZB	ARM (F)					
112-1	RJW140ZC	SPRING					
114	RNL1ZD	DAMPER ARM					
115	RUB503ZD	MAIN LEVER					
116	RFKPRSCH9N	CHASSIS ASS'Y					
117	RJW142ZA	SPRING					
118	RUD105ZA	SPRING					
120	RJW139ZA	SPRING					
121	RFKPRSCH9N	DC MOTOR ASS'Y					
122	1UE0015ZB	PLUNGER					
123	RUB428ZE	MOVING IRON CORE					
124	RMA0101	ANGLE					
125	RMD5014ZC	ANGLE					
126	RDG5927ZG	MAIN GEAR					
127	1DW0037ZB	FLYWHEEL (F)					
127-1	RNW139ZA	WASHER					
128	1DW0038ZB	FLYWHEEL (R)					
128-1	RNW138ZA	WASHER					
129	1DG0006ZB	REEL TABLE GEAR					
130	RUB513ZD	ARM					
131	1UB0091ZA	LEVER					
131-1	RJW146ZA	SPRING					
132	1DR0011ZB	MAIN PULLEY					
133	RDV90ZB	BELT					
134	RDG5769ZA	REEL TABLE GEAR					
135	RJQ111ZB	SPRING					
136	RJW145ZA	SPRING					
137	1UB0090ZA	ROD					
137-1	RUB512ZB	ROD					
138	RDG5773ZB	GEAR					
139	RJQ112ZA	SPRING					
140	RUS609ZC	TAPE PRESSURE SPRING					
141	RUB514ZC	LEVER					
142	RJW147ZA	SPRING					
143	RUB515ZA	LEVER					

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST		243	RUB515ZA	LEVER	
(DECK2)				244	RUB509ZA	LEVER	
201	RXQ0161	HEAD BLOCK (REC/PLAYBACK)		245	RDV108ZA	CAPSTAN BELT	
202	RUA793ZF	HEAD BASE		249	RHG3032ZA	RUBBER CUSHION	
203	RZLAR300A	ROD		250	RNL180ZB	DAMPER ARM	
203-1	RJW143ZA	SPRING		251	REX0172	LEAD WIRE (5P)	
204	1UB0089ZA	ARM		261	XTW2+6L	SCREW	
204-1	RJW148ZA	SPRING		262	XTW2+8L	SCREW	
205	1DM0018ZB	REEL TABLE (R)		263	XTN26+7J	SCREW	
206	1DM0017ZB	REEL TABLE (F)		264	RHE5203ZA	SCREW	
207	RML0069-1	LEVER		265	XTW2+8S	SCREW	
208	RDG5772ZC	GEAR		266	XYC2+JF16	SCREW	
209	RUB508ZB	BRAKET ROD		267	RHD26002	SCREW	
210	RUB506ZB	LEVER		268	RJS10T7ZA	CONNECTOR(10P) J971A	
211	1UB0088ZB	ARM(R)		269	REX0145	LEAD WIRE ASS'Y	
211-1	RJW141ZA	SPRING					
212	1UB0087ZB	ARM(F)					
212-1	RJW140ZC	SPRING					
214	RNL1ZD	DAMPER ARM					
215	RUB503ZD	MAIN LEVER					
216	RFKRRSCH9N	CHASSIS ASS'Y					
217	RJW142ZA	SPRING					
218	RUD105ZA	SPRING					
219	RJW144ZA	SPRING					
220	RJW139ZA	SPRING					
221	RFM133ZA	DC MOTOR					
222	1UE0015ZB	PLUNGER					
223	RUB428ZE	MOVING IRON CORE					
224	RMA0101	ANGLE					
225	RMD5014ZC	ANGLE					
226	RDG5927ZG	MAIN GEAR					
227	1DW0037ZB	FLYWHEEL (F)					
227-1	RNW139ZA	WASHER					
228	1DW0038ZB	FLYWHEEL (R)					
228-1	RNW138ZA	WASHER					
229	1DG0006ZB	REEL TABLE GEAR					
230	RUB513ZD	ARM					
231	1UB0091ZA	LEVER					
231-1	RJW146ZA	SPRING					
232	1DR0011ZB	MAIN PULLEY					
233	RDV90ZB	BELT					
234	RDG5769ZA	REEL TABLE GEAR					
235	RJQ111ZB	SPRING					
236	RJW145ZA	SPRING					
237	1UB0090ZA	ROD					
237-1	RUB512ZB	ROD					
238	RDG5773ZB	GEAR					
239	RJQ112ZA	SPRING					
240	RJS609ZC	TAPE PRESSURE SPRING					
241	RUB514ZC	LEVER					
242	RJW147ZA	SPRING					

MECHANISM PARTS LOCATION •DECK 2



■ CABINET PARTS LOCATION



[illegible]